DIP TANK WASH

2900 Two In One Chemistry
2800 and 2900 are dip tank products designed to break up plastisol ink and direct emulsion at the same time. After several minutes in the dip dank, the screen is put in a sink and residue is removed with a high pressure (1000 lb.) water spray. Concentrated 10 to 1 mix with water.

2900 Concentrated Formula (10 to1)
SYS-2900-55G   55 GAL
SYS-2900-5C   5 Gal Cube
SYS-2900-5G   5 Gal.
SYS-2900-G   Gal.

CONVENTIONAL SOLVENTS

These are a series of solvent blends that have been used by screen printers for decades. The demise of the original manufacturer prompted Screen Systems to continue with this series of solvents using the original formulations. Not only do they work well with many types of inks, but can improve flow, control drying, and improve productivity.

1900 THINNER & WASHUP

Formulated as a mild solvent and thinner for poster and enamel inks. Helps control viscosity without changing dry times. Always test before using.

SYS-1900-G   Gal.   SYS-1900-5G   5 Gal.

1902 LACQUER THINNER

Formulated as a fast washup for a wide variety of inks including; poster, enamels, lacquers, multi-purpose, acrylic, epoxy, and UV inks. One of the products that should be in every shop. Always test before using.

SYS-1902-G   Gal.   SYS-1902-5G   5 Gal.
SYS-1902-55G   55 Gal.

1910 SLOW THINNER

Formulated as a slow solvent and thinner for poster and enamel inks. Helps control viscosity and eliminate drying in problems. Always test before using.

SYS-1910-G   Gal.   SYS-1910-5G   5 Gal.

1925 MILD LACQUER
Our Best Selling Solvent

Formulated as a mild washup for a wide variety of inks including; poster, enamels, lacquers, multi-purpose, acrylic, epoxy, and UV inks. One of the products that should be in every shop. Always test before using.

SYS-1925-G   Gal.   SYS-1925-5G   5 Gal.
SYS-1902-55G   55 Gal.

5100 FRAME PREP CLEANER
(Isopropyl Alcohol)

A mild solvent cleaner which evaporates without a trace. Can be used on wood, metal, or plastic frames to remove grease and dirt, and to insure maximum-strength adhesive bonds.

SYS-5100-Q   Qt.   SYS-5100-5G   5 Gallon
SYS-5100-G   Gal.

PLASTISOL REMOVER

ALBATROSS SPIFF 2 CLEANING FLUID

SPIF II is a new and unique cured ink remover which does not contain methylene chloride, perchloroethylene or any other chemical requiring a cancer warning. It has a high TLV and is not subject to the methylene chloride exposure monitoring standards. Flashpoint of over 141°F

SPIF-2-G   S.P.I.F. 2   Gal.
SPIF-2-5G   S.P.I.F. 2   5Gal

TEKMAR TS-3

A traditional cleaning fluid containing methylene chloride. This product requires employee exposure monitoring.

TS-3-G   Tekmar Remover   Gal.
TS-3-5G   Tekmar Remover   5 Gal.

SPECIALTY TEXTILE PRODUCTS

PLASTISOL CLEANING GUNS

CLEANING ACCESSORIES

ALBATROSS SG-5000 SPOT CLEANING GUN

The Albatross SG-5000 is the most powerful spot cleaning gun manufactured. It is perfect for high volume screen printers, textile mills, apparel manufacturer and other applications where heavy duty use is required. Features include: Extremely High Pressure Unbreakable - High Impact Plastic Housing Vapor Lock Switch Variable Spray Nozzle 60 Watt Motor Draws from Large 22 oz. Jar or Directly from Bulk Containers Brass and Stainless Steel Pump Assembly for Years of Trouble Free Use. Made in Switzerland for Precision Quality.

54-1870-2   5000 Spot-Cleaning Gun

Expert SP-3000 & QD-3500 Quick Dry Clean Gun

They have a brass pump cylinder and a large canister. The Expert SP-3000 an QD-3500 are ergonomically designed spot removers that provide 3000 psi pressure. Both have adjustable nozzles from pinpoint to broader with adjustable flow rates. The QD-3500 cleaning gun combines the features of the Expert 3000 PSI Cleaning Gun with a built in quick dry air nozzle. Allows user to clean and dry spots simultaneously.

54-1871 3   SP-3000 Spot Cleaning Gun
54-1873-5   QD-3500 Spot-Cleaning Gun

GOOF GUN

Economy cleaning gun with high pressure adjustable nozzle.Cast metal housing makes it heavy for prolonged use.

54-1869-1   Goof Gun
54-1869-2   #32 Replacement Nozzle

EXHAUSTER

Superkleen Venta Systems provide strong vacuum suction to exhaust solvent fumes. The brisk air movement also dries the fabric aiding in the spot cleaning process. The volume of spot cleaning required and production facility space constraints will dictate which Superkleen Venta System will best serve your needs.
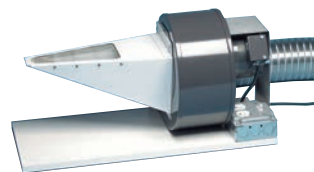
E-ALB-VENTA-1 Venta Table-Top System

ALBATROSS FLOOR MODEL EXHAUSTER

This complete spot cleaning station takes up only 2 square feet of space.

Includes;
• Gun Reel
• 7' Support Pole
• Convenient Shelf to hold spotters or
    cleaning fluid
• Arm pivots to prevent ricochet of fluids.

E-ALB-VENTA-2 Venta Floor-Model System

TSR-16 SCORCH OFF

• Easy to use.
• Removes scorches.

TEXSTYLE Scorch Remover, instantly removes light to medium scorching from tees and sweats. It is simply sprayed on the scorched areas and then the garment is run back through the dryer. It even works on sun discoloration. Its that simple. No more lost $$ due to scorching.

A Non flammable product formulated to remove light scorching caused by textile dryers, from cotton t-shirts and cotton fabric. Product will not work on man-made fibers. Product will remove light scorching that only effects surface fibers. Deep scorching or burning can not be removed with this product.

INSTRUCTIONS:

1. Lightly spray effected area with Texstyle Scorch Remover.
2. Run garment back through dryer.
3. Check garment is fully dry-if not, run back through dryer.

NOTE: If garment is not fully dried or left in sun, yellowing can occur. Always test new fabrics in inconspicuous area first to ensure fabric stability.

TSR-16   Scotch Off   16 oz.

LASER DIGITAL THERMOMETER
MINI TEMP GUN

All you do is push the side button, aim the laser pointer where you want to check the temperature and release the button. The digital panel instantly reads the temperature of whatever the laser pointer is on. Switchable for Celsius of Fahrenheit. Runs on 1 9 volt battery.

MT-4   Digital Laser Thermometer

PE-2

This small version easily fits in a shirt picket. The digital panel instantly reads the temperature of whatever the laser pointer is on. The PE-2 includes a red sighting laser, and a temperature range to 482F (easily switchable to 250C). The PE-2 has an adjustable emissivity setting for precise calibration, and perhaps best of all, a tight infrared "cone" distance to spot ratio (D:S) of 8:1. That means at a distance of 8 inches, you are reading an area just 1 inch in diameter. Switchable for Celsius of Fahrenheit. Runs on two AAA batteries. Comes with a metal storage case.

PE-2   Digital Laser Thermometer

ATKINS TEMPERATURE PROBE

• Temperature Range -40°F to 400°F
• 15' Cable with Silicone Outer Jacket
• Auto Shut-off After 10 Minutes Non-use.
• 5 Year Instrument Waranty, 1 Year Probe

The 93816-K Screen Print Kit with AquaTuff 35100-K Waterproof Thermocouple Instrument and 50008-K Screen Print Donut Probe allows you to monitor precise ink temperatures when profiling dryers to ensure perfect prints every time!

UACCX-PROB   Atkins Tempeature Probe
E-P10830   Replacement Donut Wire Set

PAPER THERMOMETER CO.

These are self-adhering labels with the same characteristics as Thermopaper and available as 5-temperature labels. The single temperature Thermolabels are completely enclosed in clear plastic for protection against water, steam, oil, grease, etc. The 5-temperature Thermolabels are not liquid tight and are used in tests where liquids are not present. Thermolabels are especially suited to supply thermal data on inaccessible areas such as remote parts of conveyor dryers. Sixteen labels per package.

TL/1	Set #1	(100°-130°F)
TL/2	Set #2	(140°-180°F)
TL/3	Set #3	(190°-230°F)
TL/4	Set #4	(240°-280°F)
TL/5	Set #5	(290°-330°F)
TL/6	Set #6	(340°-380°F)
TL/7	Set #7	(390°-435°F)
TL/8	Set #8	(450°-500°F)

NUMBERING STENCILS

Stencils are a fast and easy way to number sports garments. A screen is prepared with an unblocked square where you want the numbers to print. The paper stencils are placed on the garment in position. The screen is brought down and ink is printed through the screen and stencils. The screen is lifted and the paper stencils peeled off of the screen. Then on to the next number. Stencils are packaged in lots of 100. Sets have two hundred #1's and one hundred of all other numbers, plus spacers.

1234567890
STANDARD BLOCK

Two Inch Block Stencils

18-0211-0	#0	18-0211-5	#5
18-0211-1	#1	18-0211-6	#6
18-0211-2	#2	18-0211-7	#7
18-0211-3	#3	18-0211-8	#8
18-0211-4	#4	18-0212	Spacer Strip

18-0213	Two Inch Block Stencil Set

Four Inch Block Stencils

18-0411-0	#0	18-0411-5	#5
18-0411-1	#1	18-0411-6	#6
18-0411-2	#2	18-0411-7	#7
18-0411-3	#3	18-0411-8	#8
18-0411-4	#4	18-0412	Spacer Strip

18-0413	Four Inch Block Stencil Set

Six Inch Block Stencils

18-0611-0	#0	18-0611-5	#5
18-0611-1	#1	18-0611-6	#6
18-0611-2	#2	18-0611-7	#7
18-0611-3	#3	18-0611-8	#8
18-0611-4	#4	18-0612	Spacer Strip

18-0613	Six Inch Block Stencil Set

Eight Inch Block Stencils

18-0811-0	#0	18-0811-5	#5
18-0811-1	#1	18-0811-6	#6
18-0811-2	#2	18-0811-7	#7
18-0811-3	#3	18-0811-8	#8
18-0811-4	#4	18-0812	Spacer Strip

18-0813	Eight Inch Block Stencil Set

Ten Inch Block Stencils

18-1011-0	#0	18-1011-5	#5
18-1011-1	#1	18-1011-6	#6
18-1011-2	#2	18-1011-7	#7
18-1011-3	#3	18-1011-8	#8
18-1011-4	#4	18-1012	Spacer Strip

18-1013	Ten Inch Block Stencil Set

Twelve Inch Block Stencils

18-1211-0	#0	18-1211-5	#5
18-1211-1	#1	18-1211-6	#6
18-1211-2	#2	18-1211-7	#7
18-1211-3	#3	18-1211-8	#8
18-1211-4	#4	18-1212	Spacer Strip

18-1213	Twelve Inch Block Stencil Set

OUTLINE STENCILS

Outline stencils are slightly larger than block stencils and are used first to create two color numbers.

Four Inch Block Outline Stencils

18-0421-0	#0	18-0421-5	#5
18-0421-1	#1	18-0421-6	#6
18-0421-2	#2	18-0421-7	#7
18-0421-3	#3	18-0421-8	#8
18-0421-4	#4	18-0422	Spacer Strip

18-0423	Four Inch Block Stencil Outline Set

Six Inch Block Outline Stencils

18-0621-0	#0	18-0621-5	#5
18-0621-1	#1	18-0621-6	#6
18-0621-2	#2	18-0621-7	#7
18-0621-3	#3	18-0621-8	#8
18-0621-4	#4	18-0622	Spacer Strip

18-0623	Six Inch Block Stencil Outline Set

Eight Inch Block Outline Stencils

18-0821-0	#0	18-0821-5	#5
18-0821-1	#1	18-0821-6	#6
18-0821-2	#2	18-0821-7	#7
18-0821-3	#3	18-0821-8	#8
18-0821-4	#4	18-0822	Spacer Strip

18-0823	Eight Inch Block Stencil Outline Set

Ten Inch Block Outline Stencils

18-1021-0	#0	18-1021-5	#5
18-1021-1	#1	18-1021-6	#6
18-1021-2	#2	18-1021-7	#7
18-1021-3	#3	18-1021-8	#8
18-1021-4	#4	18-1022	Spacer Strip

18-1023	Ten Inch Block Stencil Outline Set

Twelve Inch Block Outline Stencils

18-1221-0	#0	18-1221-5	#5
18-1221-1	#1	18-1221-6	#6
18-1221-2	#2	18-1221-7	#7
18-1221-3	#3	18-1221-8	#8
18-1221-4	#4	18-1221-S	Spacer Strip

18-1223	Ten Inch Block Stencil Set

FULL BLOCK STENCILS

Full block stencils are similar to block stencil and are different in only four numbers (1, 2, 4, & 7). These have the extra block on the bottom as shown. Other numbers are the same as regular block.

1234567890
FULL BLOCK

Four Inch Full Block Stencils

18-0431-1	#1	18-0431-4	#4
18-0431-2	#2	18-0431-7	#7

18-0433	Four Inch Full Block Stencil Set

Six Inch Full Block Stencils

18-0631-1	#1	18-0631-4	#4
18-0631-2	#2	18-0631-7	#7

18-0633	Six Inch Full Block Stencil Set

FULL BLOCK STENCILS

Eight Inch Full Block Stencils
18-0831-1	#1	18-0831-4	#4
18-0831-2	#2	18-0831-7	#7

18-0833   Eight Inch Full Block Stencil Set

Ten Inch Full Block Stencils
18-1031-1	#1	18-1031-4	#4
18-1031-2	#2	18-1031-7	#7

18-1033   Ten Inch Full Block Stencil Set

Twelve Inch Full Block Stencils
18-1231-1	#1	18-1231-4	#4
18-1231-2	#2	18-1231-7	#7

18-1233   Twelve Inch Full Block Stencil Set

FULL BLOCK OUTLINE STENCILS

Full Block Outline stencils are slightly larger than block stencils and are used first to create two color numbers.

Four Inch Full Block Outline Stencils
18-0441-1	#1	18-0441-4	#4
18-0441-2	#2	18-0441-7	#7

18-0443   Four Inch Full Block Stencil Set

Six Inch Full Block Outline Stencils
18-0641-1	#1	18-0641-4	#4
18-0641-2	#2	18-0641-7	#7

18-0643   Six Inch Full Block Stencil Set

Eight Inch Full Block Outline Stencils
18-0841-1	#1	18-0841-4	#4
18-0841-2	#2	18-0841-7	#7

18-0843   Eight Inch Full Block Stencil Set

Ten Inch Full Block Outline Stencils
18-1041-1	#1	18-1041-4	#4
18-1041-2	#2	18-1041-7	#7

18-1043   Ten Inch Full Block Stencil Set

Twelve Inch Full Block Outline Stencils
18-1241-1	#1	18-1241-4	#4
18-1241-2	#2	18-1241-7	#7

18-1243   Twelve Inch Full Block Stencil Set

SOCCER BLOCK STENCILS

Eight Inch Soccer Block Stencils

18-0853   Eight Inch Soccer Block Stencil Set

TRANSFER PAPERS

PARCHMENT SILICONE PAPER
This highly transparent, silicone treated paper is ideal for cold peel, total transfers. Plastisol transfers are least likely to stick to this sheet. A 50 lb stock that is silicone treated on both sides. Always test print before production. May not shrink consistently from sheet to sheet, recommended for 2 colors maximum. Priced by the 500 sheet ream or individual sheet.

21-6026-1	12-1/2 x 12-1/2" Sheet
21-6027-3	12-1/2 x 18" Sheet
21-6030-7	12-1/2 x 18" Ream
21-6031-5	18 x 25" Ream
21-6032-3	35 x 38' Ream
21-6033-1	12-1/2 x 12-1/2" Ream

TRANS FRENCH T-75 (TRANSFERT 75)
A non-parchment white sheet that is the most heat stable transfer sheet available. Works well with multi-color designs with minimal paper shrinkage. Excellent for screen printing or lithography for cold peel transfers. Priced by the 500 sheet ream.

UPAPR-TF25	25X38" Trans French
UPAPR-TF11	12-1/2 x 12-1/2" Trans French

SOFT-TRANS 60
Considered to be the best for hot peel and split transfers. Also works well for cold peel transfers. Has good dimensionally stability for multi-color transfers. Also recommended for trans puff transfers. Priced by the 500 sheet ream.

UPAPR-ST25	25x38" Soft Trans
UPAPR-ST11	12-1/2 x 12-1/2" Soft Trans

SUPER-TRANS
A versatile heat transfer paper that can be used for the production of regular, high opacity, cold-peel, puff, glitter, and metallic transfers. Excellent stability for multi-color transfers. Not recommended for plastisol backed lithographic transfers. Priced by the 500 sheet ream.

UPAPR-SU25	25x38" Super Trans
UPAPR-SU11	12-1/2 x 12-1/2" Super Trans

ULTRA STRIP 3000
A coated hot peel paper that allows the screen printer to obtain complete plastisol ink release at the time of transfer, yet still maintain the hot peel look. Excellent opacity is obtained when transferred to dark garments. Priced by the 1000 sheet carton.

L US3000   25x38" Soft Trans

CLEAR TRANS FILM
Transfilm is a release coated (1 side) clear polyester film for production either hot or cold peel transfers. The release coating provides easy release and leaves a very smooth surface on the transferred image. The clear film makes placement and line up very easy. Ideal for tagless labels. A 75 micron thick plastic film that is much more dimensionally stable than paper and does not5 have a moisture / humidity problem. Priced by the sheet.

L-TF1927   19.5x27" Clear Trans Film

Custom Cuts/Sizes Available

THERMO FLEX® PLUS

Compare the ease of weeding and applying ThermoFlex® Plus with competitive products and discover why so many professionals ask for it by name. ThermoFlex Plus is a durable polyurethane based material that is highly flexible. It has a soft hand and strong grip. ThermoFlex® Plus is available in fifty six (56) colors with a matte finish to match popular team colors including metallic gold and silver with five (5) bright neons and twelve (12) Metal Flake colors. Available in widths of 15", 20", and 30" in lengths of 15', 30', and 75'.

TF-PLS-9100-WWLL	White	TF-PLS-9547-WWLL	Ice Blue
TF-PLS-9150-WWLL	Storm Grey	TF-PLS-9550-WWLL	Pale Blue
TF-PLS-9152-WWLL	Dark Gray	TF-PLS-9551-WWLL	Baby Blue
TF-PLS-9236-WWLL	Black	TF-PLS-9562-WWLL	Sky Blue
TF-PLS-9301-WWLL	Red	TF-PLS-9563-WWLL	Ocean Blue
TF-PLS-9305-WWLL	Dusty Rose	TF-PLS-9564-WWLL	Sapphire
TF-PLS-9307-WWLL	Medium Pink	TF-PLS-9565-WWLL	Medium Blue
TF-PLS-9308-WWLL	Rosa	TF-PLS-9570-WWLL	Tiffany Blue
TF-PLS-9309-WWLL	Coral	TF-PLS-9576-WWLL	Columbia Blue
TF-PLS-9310-WWLL	Hot Pink	TF-PLS-9577-WWLL	Lilac
TF-PLS-9312-WWLL	Crimson	TF-PLS-9578-WWLL	Slate Blue
TF-PLS-9315-WWLL	Flame Red	TF-PLS-9581-WWLL	Lavender
TF-PLS-9333-WWLL	Orange	TF-PLS-9583-WWLL	Light Purple
TF-PLS-9335-WWLL	Tangerine	TF-PLS-9584-WWLL	Royal Purple
TF-PLS-9337-WWLL	Peach	TF-PLS-9585-WWLL	Amethyst
TF-PLS-9340-WWLL	Texas Orange	TF-PLS-9587-WWLL	Wine
TF-PLS-9350-WWLL	Maroon	TF-PLS-9600-WWLL	Seafoam Grn
TF-PLS-9360-WWLL	Violet	TF-PLS-9601-WWLL	Aqua Green
TF-PLS-9426-WWLL	Athletic Gold	TF-PLS-9610-WWLL	Lime
TF-PLS-9450-WWLL	Medium Yellow	TF-PLS-9613-WWLL	Mint Green
TF-PLS-9460-WWLL	Vegas Gold	TF-PLS-9620-WWLL	Bright Green
TF-PLS-9465-WWLL	Ochre	TF-PLS-9625-WWLL	Apple Green
TF-PLS-9472-WWLL	Lemon Yellow	TF-PLS-9630-WWLL	Emerald Green
TF-PLS-9513-WWLL	Navy Blue	TF-PLS-9633-WWLL	Kelly Green
TF-PLS-9519-WWLL	Reflex Blue	TF-PLS-9669-WWLL	Olive Drab
TF-PLS-9520-WWLL	Bright Blue	TF-PLS-9676-WWLL	Forest Green
TF-PLS-9522-WWLL	Royal Blue	TF-PLS-9729-WWLL	Vanilla Cream
TF-PLS-9540-WWLL	Teal	TF-PLS-9789-WWLL	Chocolate

THERMO FLEX® PLUS METALLICS
Can not be layered beneath another product.

TF-PLS-9834-WWLL	Antique Silver	TF-PLS-9843-WWLL	Old Gold
TF-PLS-9835-WWLL	Graphite	TF-PLS-9844-WWLL	Copper Gold
TF-PLS-9836-WWLL	Bronze	TF-PLS-9845-WWLL	Dark Copper

THERMO FLEX® PLUS METAL FLAKES
Can not be layered beneath another product.

TF-PLS-9848-WWLL	White	TF-PLS-9870-WWLL	Orange
TF-PLS-9850-WWLL	Titanium	TF-PLS-9878-WWLL	Red
TF-PLS-9858-WWLL	Black	TF-PLS-9880-WWLL	Bright Pink
TF-PLS-9859-WWLL	Red/Black	TF-PLS-9888-WWLL	Blue
TF-PLS-9868-WWLL	Gold	TF-PLS-9890-WWLL	Purple
TF-PLS-9869-WWLL	White/Gold	TF-PLS-9898-WWLL	Green

THERMO FLEX® PLUS NEON
NOTE: Neon colors will **NOT** layer!

TF-PLS-9910-WWLL	Neon Pink	TF-PLS-9930-WWLL	Neon Orange
TF-PLS-9920-WWLL	Neon Yellow	TF-PLS-9935-WWLL	Deep Orange
TF-PLS-9940-WWLL	Neon Green		

THERMO FLEX® SPORT

ThermoFlex® Sport is a durable thick film material designed to bridge the gaps in open-mesh athletic jersey.

You can heat press ThermoFlex® Sport at a relatively low (300° F - 320° F) temperature and short dwell time (8-10 seconds), which minimizes dye migration from colored polyester jersey mesh. Ideal for cotton, uncoated polyester, mesh and poly blend fabrics, excluding nylon. Use a 45˚ blade, medium even press pressure and peel warm or cold. Can not be layered. ThermoFlex® Sport is available in fifteen (15) standard team colors and Available in widths of 13.5", 18", and 27" in lengths of 15', 30', and 75'.

TF-SP-4100-WWLL	White	TF-SP-4513-WWLL	Navy Blue
TF-SP-4150-WWLL	Storm Grey	TF-SP-4576-WWLL	Columbia Blue
TF-SP-4236-WWLL	Black	TF-SP-4584-WWLL	Purple
TF-SP-4301-WWLL	Red	TF-SP-4633-WWLL	Kelly Green
TF-SP-4333-WWLL	Orange	TF-SP-4676-WWLL	Dark Green
TF-SP-4350-WWLL	Maroon	TF-SP-4843-WWLL	Old Gold
TF-SP-4526-WWLL	Athletic Yellow	TF-SP-4910-WWLL	Neon Pink
TF-SP-4522-WWLL	Royal Blue		

GLITTER FLEX® ULTRA

Glitter Flex® Ultra provides a bright glitter fashion effect. Real glitter flakes are encased in a high quality heat sealing adhesive. Great for adding value and making designs stand out. The pressure sensitive carrier enables easy repositioning. Available in 19.5" wide rolls only, in lengths of 15', 30', and 75'.

TF-GFU-01-19XX	Silver	TF-GFU-29-19XX	Burgundy
TF-GFU-02-19XX	Gold	TF-GFU-31-19XX	Dark Gold
TF-GFU-03-19XX	Red	TF-GFU-32-19XX	Sky Blue
TF-GFU-04-19XX	Pink	TF-GFU-33-19XX	Silver Pink
TF-GFU-05-19XX	Purple	TF-GFU-34-19XX	Light Purple
TF-GFU-06-19XX	Emerald	TF-GFU-35-19XX	Wine
TF-GFU-07-19XX	Black Gold	TF-GFU-39-19XX	Yellow Green
TF-GFU-08-19XX	Jade	TF-GFU-73-19XX	Lt Burgundy
TF-GFU-09-19XX	Aqua	TF-GFU-74-19XX	Midnight Blue
TF-GFU-10-19XX	Brown	TF-GFU-75-19XX	Amethyst
TF-GFU-11-19XX	Black	TF-GFU-76-19XX	Carnation Pink
TF-GFU-12-19XX	Blue	TF-GFU-77-19XX	Majestic Purple
TF-GFU-12A-19XX	Old Blue	TF-GFU-78-19XX	Heather Purple
TF-GFU-14-19XX	Green	TF-GFU-79-19XX	Steel Blue
TF-GFU-15-19XX	Multi	TF-GFU-91-19XX	White/Silver
TF-GFU-16-19XX	Light Multi	TF-GFU-92-19XX	White/Gold
TF-GFU-17-19XX	Grey	TF-GFU-93-19XX	White/Red
TF-GFU-18-19XX	Lavender	TF-GFU-94-19XX	White/Emerald
TF-GFU-19-19XX	Green	TF-GFU-95-19XX	White/Royal Blu
TF-GFU-20-19XX	Copper	TF-GFU-96-19XX	Vegas Gold
TF-GFU-21-19XX	Dark Purple	TF-GFU-97-19XX	Silver Gold
TF-GFU-22-19XX	Navy Blue	TF-GFU-98-19XX	Champagne
TF-GFU-23-19XX	Light Gold	TF-GFU-99-19XX	Light Copper
TF-GFU-24-19XX	Cherry	TF-GFU-101-19XX	Brit Racing Grn
TF-GFU-26-19XX	Royal Blue	TF-GFU-102-19XX	Royal Purple
TF-GFU-27-19XX	Hot Pink	TF-GFU-103-19XX	Lt Royal Blue
TF-GFU-28-19XX	Dark Green	TF-GFU-104-19XX	Rose Gold

RAINBOW COLORS

TF-GFU-RB47C-19XX	White Clear	TF-GFU-RB113-19XX	Green
TF-GFU-RB47O-19XX	White Opaque	TF-GFU-RB114-19XX	Sparkle White
TF-GFU-RB110-19XX	Pineapple	TF-GFU-RB115-19XX	Cotton Candy
TF-GFU-RB111-19XX	New Pink	TF-GFU-RB116-19XX	Orange
TF-GFU-RB112-19XX	Rose	TF-GFU-RB117-19XX	Light Aqua

HOLOGRAPHIC COLORS

TF-GFU-13-19XX	Holo Pink	TF-GFU-133-19XX	Holo Shamrock
TF-GFU-30-19XX	Holo Orange	TF-GFU-134-19XX	Holo Bellflower
TF-GFU-130-19XX	Holo Tungsten	TF-GFU-135-19XX	Holo Cherry
TF-GFU-131-19XX	Silver Sparkle	TF-GFU-136-19XX	Holo Aquatic Gr
TF-GFU-132-19XX	Holo Gold Rush		

NEON COLORS

TF-GFU-120-19XX	Electric Yellow	TF-GFU-124-19XX	Bright Orange
TF-GFU-121-19XX	Key Lime	TF-GFU-125-19XX	Bright Purple
TF-GFU-122-19XX	Electric Pink	TF-GFU-126-19XX	Bright Blue
TF-GFU-123-19XX	Coral		

OPAQUE NEON COLORS

TF-GFU-RB140-19XX	Lemon	TF-GFU-RB145-19XX	Violet
TF-GFU-RB141-19XX	Lime	TF-GFU-RB146-19XX	Coral Pink
TF-GFU-RB142-19XX	Papaya	TF-GFU-RB147-19XX	Lavender
TF-GFU-RB143-19XX	Rose	TF-GFU-RB148-19XX	Jade
TF-GFU-RB144-19XX	Baby Blue	TF-GFU-RB149-19XX	Aqua Silver

GLITTER FLEX® ULTRA PERF

Glitter Flex® Ultra provides a bright glitter fashion effect with unique perforated 2mm holes. Feels lighter and adds breathability to larger designs. Real glitter flakes are encased in a high quality heat sealing adhesive. Use on cotton, uncoated polyester, fabric blends, linen, etc., but not for nylon. Great for adding value and making designs stand out. The pressure sensitive carrier enables easy weeding and repositioning. Available in 19.5" wide rolls only, in lengths of 15', 30', and 75'. Add width and length to the number.

TF-GFU-PERF-01	Silver	TF-GFU-PERF-17	Grey
TF-GFU-PERF-02	Gold	TF-GFU-PERF-19	Green
TF-GFU-PERF-03	Red	TF-GFU-PERF-23	Light Gold
TF-GFU-PERF-04	Pink	TF-GFU-PERF-26	Royal Blue
TF-GFU-PERF-11	Black	TF-GFU-PERF-27	Hot Pink
TF-GFU-PERF-12	Blue	TF-GFU-PERF-87	Rainbow White
TF-GFU-PERF-12A	Old Blue	TF-GFU-PERF-101	Briti Racing Grn

THERMO FLEX® REFLECTIVE

ThermoFlex® Reflective is a product that consists of very small glass beads that are embedded in a layer of polyester film. Both safety silvers are certified safety reflective colors that produce a maximum reflectivity of 675 candelas/lux/square meter. Use for nighttime visibility and brilliance in the spotlight. Manufactured without a pressure sensitive carrier for easy stacking. Available in 19" width only in lengths of 15', 30', and 90'. Add width and length to the number.

TF-RF-9501	Safety Silver for Nylon & Other Heat Sensitive Materials
TF-RF-9505	Safety Silver for Cotton and Cotton Blends

THERMO FLEX® DECO FLOCK

ThermoFlex® Deco Flock provides a 3 dimensional look and the feel of soft velvet. It provides a low cost alternative to embroidery. Use on cotton, uncoated polyester, acrylic, fabric blends, and similar fabrics, but not for nylon. The pressure sensitive carrier allows for easy weeding and repositioning. Available in 15" width only and lengths of 15', 30', and 66'. Add width and length to the number.

TF-DF-6100	White	TF-DF-6522	Royal Blue
TF-DF-6150	Grey	TF-DF-6556	Vivid Blue
TF-DF-6236	Black	TF-DF-6576	Columbia Blue
TF-DF-6301	Red	TF-DF-6580	Lavender
TF-DF-6307	Medium Pink	TF-DF-6584	Royal Purple
TF-DF-6317	Fire Red	TF-DF-6620	Bright Green
TF-DF-6333	Orange	TF-DF-6633	Kelly Green
TF-DF-6350	Maroon	TF-DF-6729	Vanilla Cream
TF-DF-6355	Magenta	TF-DF-6789	Brown
TF-DF-6426	Athletic Gold	TF-DF-6910	Neon Pink
TF-DF-6472	Lemon Yellow	TF-DF-6940	Neon Green
TF-DF-6513	Navy Blue		

THERMO FLEX® LUMINOUS

ThermoFlex® Luminous is a luminous (glow in the dark) film that is great for club wear and promotional garments. Use on cotton, uncoated polyester, polyester/cotton and polyester/acrylic, but not for nylon. Manufactured without a pressure sensitive carrier for easy stacking. Available in 15 and 20" widths and lengths of 15', 30', and 90'. Add width and length to the number.

TF-LF 4790	Luminous Flex

THERMO FLEX® *XTRA*

ThermoFlex® Xtra is the product to use for many heat sensitive materials such as nylon and leather. ThermoFlex® Xtra has a soft hand and strong grip with a smooth matte finish. Designs can be layered with Xtra underneath itself or ThermoFlex® Plus. (Columbia Blue, Old Gold and Antique Silver can't be layered under anything.) The pressure sensitive carrier allows for easy weeding. Available in widths of 15", 20", and 40" in lengths of 15', 30', and 90'. Add width and length to the number.

TF-TFX-8100	White	TF-TFX-8513	Navy Blue
TF-TFX-8150	Storm Grey	TF-TFX-8522	Royal Blue
TF-TFX-8236	Black	TF-TFX-8576	Columbia Blue
TF-TFX-8301	Red	TF-TFX-8584	Royal Purple
TF-TFX-8333	Orange	TF-TFX-8633	Kelly Green
TF-TFX-8350	Maroon	TF-TFX-8676	Forrest Green
TF-TFX-8426	Athletic Yellow		

METALLIC COLORS

TF-TFX-8834	Antique Silver	TF-TFX-8843	Old Gold

THERMO FLEX® SUBLIBLOCK

ThermoFlex® Subliblock is sublimation resistant, even when exposed to high temperatures. Subliblock contains an additional layer that blocks dye migration. It has a soft hand with a matte finish and a pressure sensitive carrier that enables easy weeding. Available in widths of 15", 20", and 30" in lengths of 15', 30', and 75'. Add width and length to the number.

TF-SB-3105	White	TF-SB-3426	Athletic Yellow
TF-SB-3301	Red	TF-SB-3576	Columbia Blue
TF-SB-3333	Orange		

THERMO FLEX® DECO SPARKLE

ThermoFlex® Deco Sparkle is a holographic film that creates shimmering rainbow color effects. Use on cotton, uncoated polyester, fabric blends, linen, etc., but not for nylon. Manufactured without a pressure sensitive carrier for easy stacking. Great for creating a 3-D rhinestone look. The pressure sensitive carrier allows for easy weeding and repositioning. Available in 19" width only in lengths of 15', 30', and 90'. Add width

TF-DS-5601	Royal Blue	TF-DS-5618	Crystal Gold
TF-DS-5605	Violet	TF-DS-5619	Spectrum
TF-DS-5606	Fuchsia	TF-DS-5620	Red
TF-DS-5607	Dark Pink	TF-DS-5621	Round Multi
TF-DS-5609	Orange	TF-DS-5630	Black
TF-DS-5610	Rainbow	TF-DS-5640	Purple
TF-DS-5611	Aqua	TF-DS-5650	Silver
TF-DS-5612	Sky Blue	TF-DS-5660	Gold
TF-DS-5613	Navy Blue	TF-DS-5670	Pink
TF-DS-5615	Brown	TF-DS-5680	Green
TF-DS-5617	Crystal Silver	TF-DS-5690	Blue

THERMO FLEX® DECO FILM

Add value to your fashion designs with then brilliant accent of reflective metals. Use on cotton, uncoated polyester, fabric blends, spandex*, lycra*, wool, linen, etc. (not for nylon). Manufactured without a pressure sensitive carrier for easy stacking. Available in in lengths of 15', 30', and 81'. Add width

SUPER COLORS

Super styles offer a slightly softer hand an stretchability. Super red, fuchsia, blue and green available in 14" width only. Gold and silver available in 19" width only. Note: Super silver and gold must be pressed for an additional 3 seconds with silicone paper to increase wash resistance.

TF-SS-5200	Super Silver	TF-SF-5310	Super Fuchsia
TF-SG-5200	Super Gold	TF-SB-5522	Super Blue
TF-SH 5201	Metallic Holo	TF-SG-5633	Super Green
TF-SR-5301	Super Red		

BRILLIANT COLORS

Super Brilliant colors will not stretch or layer, but can be sublimated except for silver and gold. Rainbow is slightly transparent.

TF-BR-5202	Brilliant Rainbow	TF-BRO-5210	Opaque Bril Rainbow
TF-BA-5203	Brilliant Aqua	TF-BA-5211	Brilliant Amethyst
TF-BR-5204	Brilliant Red	TF-BP-5212	Brilliant Pink
TF-BS-5205	Brilliant Silver	TF-BC-5220	Brilliant Clear
TF-BF-5206	Brilliant Fuchsia	TF-BG-5213	Brilliant Green
TF-BO-5208	Brilliant Orange	TF-BG-5255	Brilliant Gold
TF-BB-5209	Brilliant Royal Blue	TF-BG-5260	Brilliant Light Gold

REFLECTIVE FILM

A printable reflective transfer system with 3M Scotchlite® material.

Features: Extremely high reflectivity and excellent durability for life of garment which retain reflectivity after repeated washings when applied properly. The Flash-Trans Reflective Transfer System can provide reflecting power similar to reflective transfer tapes while also allowing printers the ability to create custom decorated reflective designs. The Reflective Transfer System is a user friendly system consisting of 3M Scotchlite® Reflective Transfer Film, transfer adhesive and coupling Agent. Transfers made with this system and applied properly will typically retain reflectivity and aesthetic appeal for the life of the garment depending upon actual use, exposure conditions and maintenance

Opacity: Flash-Trans transfers are opaque and can be applied to 100% cotton or polyester blended garments of any color, with excellent day and night visibility. Transfers will appear a silver color when viewed in daytime conditions.

Mesh: Best results are achieved with polyester monofilament meshes in the 110-156 (43-62 metric) range.

Stencils: Use any direct emulsion or capillary film compatible with plastisol inks.

Additives: None recommended. When Flash-Trans Transfer Adhesive is mixed with Flash-Trans Coupling Agent the mixed ink will thicken when not in use. However, it will regain an easy printing viscosity when stirred or during the printing process.

Mixing Instructions: Thoroughly mix 100 parts of Flash-Trans Transfer Adhesive with 4 parts of Flash-Trans Coupling Agent by eight to make a workable printing solution. Use mixed adhesive within one hour of mixture. For optimal washfastness, it is critical that the Flash-Trans Coupling Agent be 4-6% of the total mixture. Because of this, it is highly recommended that the components be weighed with a reliable scale. Caution: Refer to the Material Safety Data Sheet as the Flash-Trans Coupling requires special handling.

Printing Instructions: Lightly spray the printing platen with a repositionable pressure sensitive spray adhesive and carefully place the transfer film backing side down against the platen. Apply a thin, uniform flood coat of the adhesive over the image. It is recommended for best results that the image be flood coated before the print stroke. Utilize screen mesh size and adjust speed of print stroke so that the gelled ink thickness is a approximately 3 mils in thickness.

Gel Instructions: The Flash-Trans Transfer Adhesive solution will not air dry and must be gelled or semi-cured prior to application to garment. Using a conveyor style oven with either an infrared or forced air heat source, adjust the belt speed and temperature so the semi-cured image is dry to the touch, does not smear and has a smooth, rubbery feel. An image that looks wet or has a halo around it is under-gelled and the belt speed and oven temperature should be recalculated. A starting guideline is for the temperature to be 200°-250°F at belt level with a dwell time of 30-45 seconds. Do not stack semi-cured transfers until they have cooled to room temperature. Do not over cure transfers as this will cause poor adhesion and affect the longevity.

Transferring Instructions: Use a transfer machine with a flat surface where uniform heat and pressure may be applied. Transfer to garment at temperatures of 375°F for 15-20 seconds applying firm, 20-40 psi pressure. Allow transfer to cool to room temperature before removing the backing. Remove backing by firmly grabbing one corner and pulling diagonally in a continuous, smooth manner.

Caution: Exceeding transfer temperatures above 375° will make the backing difficult to remove. If higher temperatures are required for durability first apply the transfer at the recommended temperatures and then transfer again at the higher temperature using a slipsheet to protect the image. Always test the application prior to the production run.

Wash-Up: Clean screens and squeegees with mineral spirits or any screen wash designed for plastisol inks.

Storage: Store Flash-Trans Transfer Adhesive and Flash-Trans Coupling Agent at temperatures between 60°-90°F) Store 3M Scotchlite® Reflective Transfer Film at temperatures between 40°-90°F (4°-32°C). in a cool, dry area. For best storage results store sheets flat in the original shipping carton. Partially used rolls should either be stored in the original shipping carton or suspended horizontally through the core. Leftover pieces cut from a roll should also be stored flat.

Adhesives available in Qt, Gal, 5 Gal, and 55 Gal. drums

UFLTR-2024-10	20x24" 3M®Reflective Film	10 sht pkg
UFLTR-2024-25	20x24" 3M®Reflective Film	25 sht pkg
UFLTR-ROLL-12	12" x 100yd 3M®Reflective Film	
UFLTR-ROLL-24	24" x 100yd 3M®Reflective Film	
UFLTR-9080	Flash-Trans Transfer Adhesive	
UFLTR-9120	Flash-Trans Coupling Agent	
L-RTF-1218	12x18" 3M®Reflective Film	10 sht min
L-RTF-1824	18x24" 3M®Reflective Film	10 sht min
L844	Lancer Retroflec® Adhesive	
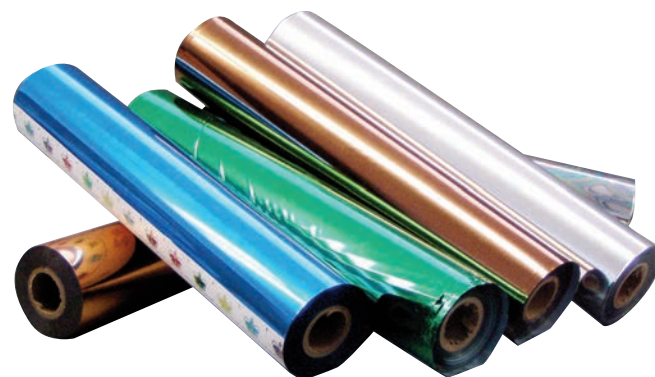
FOIL

Our foils are a set of brilliant metallic foils especially selected for application to t-shirts and other garments. Using a transfer press, the foil is transferred to a garment that has been previously printed. Even though foil will adhere to many plastisol inks, and even some urethane and water based inks, optimum results are achieved when a foil adhesive is used.

To apply, cut foil to the desired shape and place it color side up where you want the foil effect. If foil doesn't cover the entire printed area, cover exposed plastisol with release paper to shield the hot platen surface.

Transfer press should be set to between 325°-350°F with medium to high pressure for 10-15 seconds. If the transfer method (adhesive printed directly to foil) was used, transfer for 1-2 seconds at 325°-350°F with medium to high pressure. Allow foil to cool completely before peeling.

Note: Foil decorated prints are not as durable as unfoiled prints. Some dulling of the foil over time is to be expected with normal wear and laundering. Minimize by hand laundering inside out with cool or lukewarm water, drying by hanging or laying flat. Do not dry clean. Rolls are 12" x 200'

UFOIL-3000	Red	UFOIL-3100	Rose Copper
UFOIL-3111	Pink	UFOIL-M100	Copper
UFOIL-4025	Violet	UFOIL-M120	Silver
UFOIL-5035	Royal Blue	UFOIL-M220	Gold
UFOIL-6000	Green	UFOIL-M300	Bronze-Copper
UFOIL-9090	Oil Slick	UFOIL-M400	Rainbow
UFOIL-9200	Union Foil Adhesive		

TABLE ADHESIVES

Pal-A-Tac Spray Adhesive

Pal-A-Tac is a quick-drying, translucent, web spray which provides temporary adhesion for holding textile fabrics to the printing pallet. Strong and waterproof, Pal-A-Tac assures accurate registration and excellent print quality. Printing can immediately follow the application of Pal-A-Tac, as it dries instantly on the pallet. After printing, fabrics strip quickly without staining. Permanent Pal-A-Tac bonds are obtainable by spraying both surfaces to be bonded. Surfaces sprayed with Pal-A-Tac may accumulate dust and lint but it is easily reactivated with water using a lint free cloth. Pal-A-Tac is safe to use for many materials, resulting in water-tight bonds. Applications of Pal-A-Tac to flexible stock permits folding. Available in 12 oz.aerosol cans, 12 per carton. Use Pal-A-Tac with a wide variety of materials:

SYS-1865   Web Pal-A-Tack Adhesive
SYS-1866   Mist Pal-A-Tack Adhesive
SYS-1867   High-Temp Pal-A-Tack Adhesive

Sprayway® Spray Adhesive

A series of palette adhesives designed for textile screen priniing. #82 is a mist adhesive for t-shirts and light fabrics. #384 is a super flash adhesive that will resist repeated exposure to flash units. #383 is a web spray for sweat shirts and other heavy materials. None of thee will transfer to your fabrics, and all allow repositioning.

54-1806-4   #82 Mist Adhesive
54-1808-4   #384 High-Temp Mist Adhesive
54-1938-3   #383 Web Adhesive

Tekmar TB-10

TEKMAR TB 10 is a revolutionary new adhesive, developed specifically for the textile screen printing industry. It is manufactured using newly developed synthetic polymer technology, that until now, has not been available for screen printing applications. TB 10 is designed to be sprayed through an adhesive applicator, but can be hand applied. It affords tremendous hold down for both Tee's and sweats and has a tack time that rivals aerosol solvent based adhesives. Should the adhesive lose its' tackiness as a result of lint or fleece build up, it can be quickly re-activated by wiping over with a damp sponge, giving maximum use and minimizing reapplication.

TB-10-G   TB-10 Adhesive   Gal
TB-10-5G   TB-10 Adhesive   5 Gal

Tekmar TB-HV

TEKMAR TB-HV is a revolutionary new pallet adhesive that can be hand applied directly to the pallet. Water based, with no solvents or other hazardous ingredients, TB-HV is completely non-hazardous. TB-HV affords tremendous economy. Heat stable up to 700° F, TB-HV can withstand repeated flashing, without losing its tack

Application is simple. A bead of TB-HV is applied in a line across the pallet. The supplied squeegee is then used to quickly spread the adhesive over the pallet. The adhesive dries in seconds due to it's advanced acrylic polymer and high solid content. A minimum of 3-6 Doz. Shirts can be printed on a single application. There is no messy over-spray and no waste.

TB-HV-Q   TB-HV Adhesive   Qt.
TB-HV-G   TB-HV Adhesive   Gal.

Tekmar TB-EZ High Tack Adhesive

TEKMAR TB EZ is the first Pallet adhesive developed specifically for use with the new polyester Performance Fabrics.

It has high strength and will not loose it's tack even during repeated flashing. Performance fabrics contain silicones and Teflon additives that can cause premature release on other Adhesive. TB-EZ is formulated to temporarily bond with the fabric fibers and hold the garment until unloaded.

It is manufactured using synthetic polymer acrylic compounds that were developed for specialized applications such as these. TB-EZ is designed to be sprayed through an adhesive applicator such as the TARGET SYSTEM TB 500 or TB 1000. It affords tremendous hold down for all performance fabrics along with tee's and sweats and has a tack time that rivals aerosol solvent based adhesives.

TB-EZ-G   TB-EZ Adhesive   Gal.

PROOFING MATERIALS

PROOFING SQUARES

An economical method of proofing screen designs prior to production runs, for design displays, and production records. These outstanding squares will not stick to palettes, will not rip or tear when removed, and have exceptional detail and color retention characteristics. Both sides can be used for further economies. Can also be used for heat transfer, sublimation, water color, and airbrush techniques.

STX-160-500	14 x 14" White	500 pcs.
STX-160-100	14 x 14" White	100 pcs.
STX-175-500	14 x 14" Black	500 pcs.
STX-175-100	14 x 14" Black	100 pcs.
STX-180-500	14 x 16" White	500 pcs.
STX-180-100	14 x 16" White	100 pcs.
STX-185-500	14 x 16" Black	500 pcs.
STX-185-100	14 x 16" Black	100 pcs.
STX-200-500	16 x 18" White	500 pcs.
STX-200-100	16 x 18" White	100 pcs.
STX-205-500	16 x 18" Black	500 pcs.
STX-205-100	16 x 18" B lack	100 pcs.
STX-260-500	18 x 20" White	500 pcs.
STX-260-100	18 x 20" White	100 pcs.
STX-275-500	18 x 20" Black	500 pcs.
STX-275-100	18 x 20" Black	100 pcs.

T-SHIRT TUBES

T-Shirt material woven in tubes. This is actual T-shirt material in long tubes. Ideal for testing. usually three prints can be put on each section of tubing by rotating the tube. Box of 25lb.

TUBE WHITE	White Transfer Tube
TUBE BLACK	Black Transfer Tube
TUBE GRAY	Gray Transfer Tube
TUBE TAN	Tan Transfer Tube
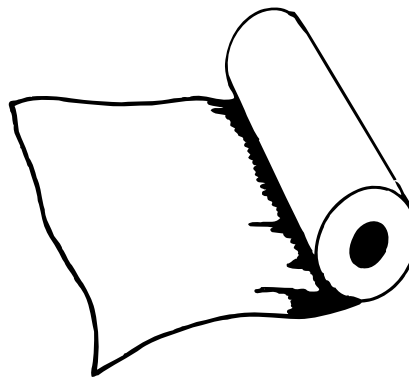
PALETTE TAPE

These are rolls of adhesive backed paper that are used to cover a platten while adhesive is applied to the paper. This makes for easy removal of excess ink, adhesive, and lint. Available in 100 yard rolls. Available in either a crepe or smooth surface

R-Tape Smooth Surface
RT-4350-16	16" x 100 yd
RT-4350-18	18" x 100 yd
RT-4350-24	24" x 100 yd

TWO SIDED PALETTE TAPE
Adhesive coated to both sides of this tape. No extra spray adhesive needed.

15-6167-9   14" X 36 yd.   TACK MAT

PAIL OPENERS

ALUMINUM "LID-OFF" OPENER

Safely opens all tightly sealed plastic pails and tubs in just seconds. Containers may easily be reclosed.

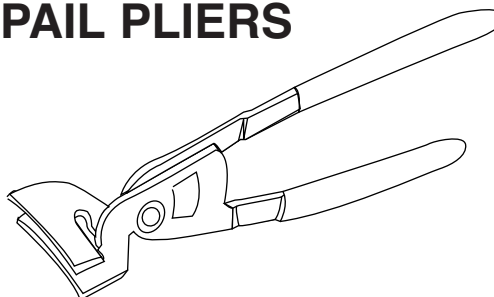69-1890-8   Aluminum Lid Opener

PLASTIC PAIL OPENER
With Bung Opener

A plastic tool that easily opens plastic gallon and 5 gallon containers. Plastic studs in the handle open both small and large size bungs on barrels.

69-1892-4   Plastic Lid Opener

PAIL PLIERS

A unique plier that spreads instead of squeezing. This action allows the wide jaws to spread the lids of plastic quarts and gallons easily without cutting. Pails can be easily resealed

71-8021-9   Pail Plier

MIXING TOOLS

Ink Spatula
Especially useful in mixing colors and in cleaning paint cans. Special stainless steel blade, expertly tempered to proper degree of flexibility. Hardwood handle.

69-

1808-0	4" Spatula	69-1811-4	10" Spatula
69-1809-8	6" Spatula	69-1812-2	12" Spatula
69-1810-6	8" Spatula		

Plastic Spatulas
Durable plastic spatulas that can be re-used or thrown away

69-1806-1	8" Plastic Spatula
69-1807-3	11" Plastic Spatula

Goop Scoop

The ideal tool for dispensing ink. This is a tough tool of polyethylene that is impervious to all inks. Its unique shape with lid notch allows complete cleaning and scraping of ink from any shape can.

69-1801-2   Goop Scoop

Slick Scoop (formerly bucket scoop)

Rigid Aluminum Construction; Will Not Rust; Not Effected by Solvents; Stores on the Edge of the Bucket; Designed to Keep hands Out of the Mess; Blade 3" wide by 4½ long; 12¾" overall

69-1802-5   Slick Scoop

CONTAINERS

Wide-Mouth Plastic Bottle

Unbreakable white plastic containers for easy pouring and secure storage of liquids. Caps included.

15-7216-6	Pint plastic jar
15-7219-7	Quart plastic jar
15-7220-5	Gal. plastic bottle

Plastic Squeeze Bottle

Ideal glue for grooves of screens,etc. Screw cap. Spout cuts off at desired length to provide exact flow.

15-1823-4	4 oz. squeeze bottle
15-1824-9	8 oz. squeeze bottle
15-1825-7	16 oz. squeeze bottle
15-1832-1	32 oz. squeeze bottle

Plastic Spray Bottle
An easy to use spray bottle with adjustable trigger spray for either a stream or mist. bottle has 32 oz. capacity. Spray unit will not spray solvent based products as the seals will dissolve.

15-1828-2	Trigger Sprayer only
15-1827-3	8 oz Plastic Spray Bottle
15-1826-5	32 oz Plastic Spray Bottle

METAL PAINT CANS

Available in quart, and gallon sizes with press-on covers.

69-8028-8	Quart
69-8029-6	Gal.

PLASTIC MIXING PAILS

In pint, quart, gallon, and 5-gallon sizes. Pints and quarts have wide-mouth press on lids,. Gallons and 5-gallon sizes have handles and press-on covers. All size containers nest into each other to save space. Easily cleaned; inert to water and most chemicals.

69-8024-7	Pint
69-8025-4	Quart
69-8026-2	Gallon
69-8027-0	5-gallon

PAPER MIXING CUPS

8 oz. plain paper cups with no varnish of plastic coating. Ideal for mixing small amounts of two part inks.

PRI-3900-00	Pkg. of 20
PRI-3900-050	Pkg. of 50
PRI-3900-100	Pkg. of 100
PRI-3900-500	Pkg. of 500
PRI-3900-999	Pkg. of 1000

HAND CLEANER

Series 8 Protective Barrier Cream

This wash-off hand-protection rinses inks, paints, adhesives and solvents off hands with just water. Simply rub a small amount on hands before work; Series 8 lasts all day until you wash it off. This protective film also prevents drying and cracking of hands.

54-1858-7	Series 8, qt.
54-1859-5	Series 8 gal.

Ink-Off Waterless Hand Cleaner (ACHC)

Safely removes all types of ink using citrus and other natural ingredients. Leaves hands soft and fresh smelling. Contains no solvents.

UACHC-9900	4.5 pound. container

Handtek Waterless Hand Clean

HANDTEK quickly cuts through grease, oil, dirt, Inks, paints, tar along

with other industrial and automotive stains, to leaves hands and skin that are soft and clean. HANDTEK Waterless Orange Hand Cleaner contains ground walnut shell, a fine natural abrasive that gently removes ground in grime and dirt. Hands are left feeling soft and moist. HANDTEK can also be used to remove grease, oil, inks and paints from surfaces. By Tekmar.

"During silk screen reclamation, HANDTEK may be used as a light duty ghost haze remove and mesh abrader."

HT-32	Quart with Pump
HT-G	Gallon with Pump

Sprayway Crazy Clean Hand Wipes

Crazy Clean Wipes are a water-based hand and surface cleaner that cuts through tar, grease, wax, ink, paint, lubricants, and adhesives. Use them for almost any job from loosening and dissolving tough ink, grease, grime and oils from hands screens, equipment and tools.

These aggressive, citrus scented towels are industrial strength, but also gentile, fortified with emollient and natural oils so they won't crack or dry hands. Great for on the job hand cleaning when a water source is not available. They won't leave annoying residue. Keep one by every press.

54-1983-7	Crazy Clean Hand Wipes

PROTECTIVE EQUIPMENT

Shop Apron
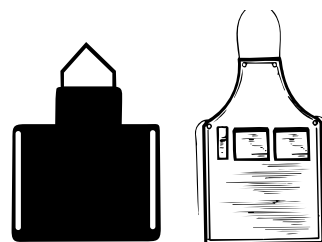
Comfortable aprons designed to protect your clothing while you work. Designed to tie around waist and loop over neck.

69-1823-9	Polyethylene disposable apron, 1.75 mil. thick; 28 x 46", pkg. of 100
69-1824-7	Bib-cloth apron; white, metal grommet, 38 x 37"; 2-pocket style

Clear Polyethylene Gloves

Extra-thick disposable hand protection. Keeps hands clean of ink, dirt and solvents. One size, five finger style fits comfortably over right or left hand. 1.75 mil. extra thick. Dispenses easily from box of 100 gloves (50 pair).

69-1833-8	Large Polyethylene Gloves

Nitril Gloves

A high performance glove with outstanding strength and chemical

resistance. Using a tough nitrile compound, Nitril gloves wear longer and offer better protection than other chemical resistant gloves. These gloves won't weaken or swell like rubber or neoprene in solvents, and don't promote contact dermatitis as some nitrile and many latex gloves do.

69-1835-6	Size 8
69-1835-9	Size 9
69-1836-0	Size 10
69-1836-1	Size 11

PROTECTIVE EQUIPMENT

Rubber Gloves

Heavy-duty, black, rubber gloves for handling strong solvents and other chemicals. 14" length; available in sizes 9 - 11 only.

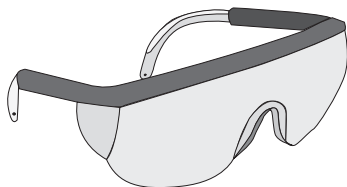69-1818-8   Size 9
69-1818-9   Size 10

Vinyl Gloves

Stretchable surgical/examination type gloves for mild solvents. Also ideal for inspection and assembly work. Thin gloves for an excellent feel.

69-1842-2   Medium
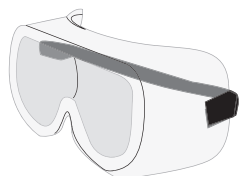69-1843-3   Large
69-1844-4   X - Large

UV GLASSES

One piece polycarbonate lens and side shield gives wearer unobstructed wide angle vision. The clear lens meets ANSI Z87.1-1989 standard for UV protection. UV protection is part of the lens, not a coating

UVP-1005-039   UV Glasses

Goggles

Direct vented goggles with clear lens and adjustable head band Meets ANSI Z87.1989

69-2125-5   Goggles

INK AND SOLVENT SAFETY ITEMS

Safety Can

Select from three lead-coated steel safety cans designed for storage of flammable materials. The 24 gauge steel body is covered with a red baked enamel finish. Approved by the NYC Fire Dept. Safety screens included. UL listed.

71-9305-5   1 qt. 4 5/8" dia. safety can
71-9306-6   1 gal. 7 1/4" dia. safety can
71-9309-7   5 gal. 11 1/2" dia. safety can

Plunger Can

No need to expose dangerous, hazardous chemicals to the work environment. Plunger dispenses liquid into a pan for moistening rags and cloths. The surplus immediately drains from the pan back into the can. The 7 1/4" dia. red body of 24 gauge steel is lead coated and offered in quart, 1/2 gallon and gallon sizes. UL listed.

71-9318-8   Plunger can, quart
71-9319-6   Plunger can, 1/2 gallon
71-9320-4   Plunger can,
gallon

Plastic Safety Can

One-piece red HDPE cans are FM approved.   Contains a metal safety screen. In 2 1/2 and 5 gallon.

71-8054-0   2 1/2 gal. plastic safety can
71-8055-7   5 gal. plastic safety can

Steel Waste Can

Round, UL-listed waste can with 6 gallon capacity. Cover can be opened by a foot pedal. Lead-coated body is constructed from 24 gauge steel.

71-9321-2   6 Gallon Can   10 lbs
71-9337-4   10 Gallon Can   11 lbs.

OPEN SCREENS, PROTECT ARTWORK, CLEAN GLASS, TEXTILES, RUBBER AND MORE

Glass Cleaner

Sprayway cleans glass without leaving residue. Available in a 15 oz. size. By Spray Way.

15-1845-5   Glass cleaner, 19 oz.

#208 Toner Aide

A transparent spray that deepens toner on velum and polyester laser prints. Helps provide a sharper screen exposure. Available in a 12 oz. size.

54-1820 8   Toner Aide

#957 Screen Opener

Just spray this clog remover (in a circular motion) into the top of the screen whenever clogging occurs. A very thin application over the dried-up area is all that is necessary; two or three squeegee passes will open up the mesh completely.

54-7570-0   #957 Sprayway Screen Opener

C-60 Solvent Cleaner/Degreaser

Non-flammable, contains no carbon tetrachloride. Cleans electric motors and machinery while running. Available in a 16 oz. size.

54-1842-1   Solvent Cleaner And Degreaser

#203 Rubber Cleaner / Rejuvenator

Cleans and revitalizes hardened rubber and blankets. Ideal for cleaning and restoring flexible vacuum frame blankets.

50-1857-4   #203 Rubber Cleaner

985 Orange Citrus Crazy Clean

A citrus based spray on cleaner for many applications including most screen inks. 16 oz. size.

54-1985-5   Orange Citrus Crazy Clean

Lint and Dust Remover

Clean air under pressure for maximum removal of lint and dust. Available in a 6 oz. size. By Sprayway

54-1846-2   Lint And Dust Remover   6 oz.

#955 Anti-Static Spray

Stops static electricity on paper, plastic, cellophane, etc. Available in a 14 oz. size.

54-1838-9   Anti-static Spray

#945 Silicone Spray

Sprayway silicone spray helps prevent sticking. Should not be used in or near printing area. Available in a 15 oz. size.

54-1840-5   Silicone Spray, 15 oz.

#960 Penetrating Oil & Rust Preventative

Stops rust; lubricates close fitting parts. Available in a 13 oz. size.

54-1843-9   Penetrating Oil & Rust Preventative

#32 Water Based Screen Opener

A convenient and easy-to-use product designed to open dried-up areas on screens caused by water-based Inks. Use this product at regular intervals to help prevent clogging and work delays. Use on screens made with photographic (direct or indirect), stencil or lacquer-proof, knife-cut films.

54-1832-0   #32 Sprayway W/B Screen Opener

ART AEROSOLS

MATTE ACRYLIC SPRAY

A clear acrylic varnish-fixatif with a matte finish that protects charcoal and pastel paintings, drawings, photographs, and proofs from dirt and moisture. Dries to a clear matte finish (flat) and is not workable.

Krylon Matte Finish

KR-1311   Matte Finish   13 oz.

ART SPRAYS

WORKABLE MATTE FIXATIVE

A matte finish coating that is specially formulated for pastels, charcoal, pencil, sketches, and layouts. Gives complete protection for drawings and layouts. Sprayed lightly, workable fixatif holds media in place for additional working without smearing or turning pastel colors "muddy". Also permits paint or ink to be applied over dry media. Can be easily erased.

Krylon Workable Fixatif
KR-1306   Workable Fixatif   13 oz.

Grumbacher Workable Fixatif
G-0546   Myston Fixatif   12-3/4 oz.

CLEAR GLOSS ACRYLIC

A clear acrylic, varnish-fixative that protects charcoal and pastel drawings, printed matter, proofs, blueprints, and photographs from dust dirt and moisture. These sprays are transparent, colorless, rapid drying, and will not change the hue of colors or stain papers. Dries to a high gloss and is not workable.

Krylon Crystal Clear
KR-1303   Krylon Crystal Clear   13 oz.

Krylon UV Resistant Clear
KR-1305   Krylon UV Res Clear   13 oz.

ADHESIVE SPRAYS

#66 Spray Adhesive
Provides both permanent or temporary bonds. Non-wrinkling; water-resistant. Available in a 14 oz. size.

54-1844-7   #66 Adhesive Spray

#77 Spray Adhesive
The original 3M adhesive designed for heavy bonding and tough jobs. The adhesive is the same as Spra-Ment listed above, except in a bigger can and with a nozzle the puts down a very heavy deposit.

M-77   #77   Spray Adhesive   17 oz.

Spray Mount
A clear adhesive that was designed for the artist. Spray one surface, and the piece will remain repositionable for some time. However, Spray-Mount will become permanent with time. It will not wrinkle or stain.

M-6065   Spray-Mount   11 oz.

Spra-ment Adhesive
A high strength aerosol adhesive that allows you to spray and bond almost immediately. Ideal for bonding paper, board, fabric, cork, etc. Spra-Ment is not repositionable, will penetrate porous surfaces, and yellow with age.

M-6060   Spra-Ment   11 oz.

Photo Mount
A strong clear, surface adhesive that will not yellow with age. The print can be sprayed, positioned, and repositioned before burnishing. For inexpensive mounting of paper, prints, R/C paper, etc.

M-6094   Photo-Mount   11 oz

#84 Super Flash Spray
Palette adhesive designed for flash cure applications.Remains tacky in spite of exposure to high temperatures. Won't transfer or allow shifting during the screen printing process.

54-1808-4   #84 Super Flash

INK JET SPRAYS

Clear Jet

Clear Jet aerosols are designed for fine art ink jet print protection. This solvent based product provides enhanced ultraviolet (UV) protection with added durability and resistance to chemicals, water, and abrasion. Available in 12oz. aerosol cans in gloss and semi-gloss finish. By Clear Star.

CS-AFA-G   Clear Jet Gloss
CS-AFA-SG   Clear Jet Semi-Gloss

SQUEEGEES

ALL SIZES, STYLES AND DUROMETERS OF SQUEEGEES FOR HAND AND MACHINE

ALL ABOUT SQUEEGEE BLADES

Squeegee blades are made of different types of resilient materials. All are impervious to solvents and chemicals used in screen printing inks. High quality screen prints depend on the squeegee, its size, durometer and edge.

1. COMPOSITION - There are various types of rubber blade formulations for strength and chemical resistance.

2. THICKNESS - 3/16", 1/4", 3/8" and 1/2" are standards established for commercial and industrial applications.

3. LENGTH - Up to 12 feet length is cast and cut for most.

4. WIDTH - Approximately two inches is our commercial standard. Other widths can be cut also.

5. DUROMETER - An important factor in determining the type of squeegee best suited for printing requirements and top quality results, squeegee durometers are determined according to the substrate, printed image and ink being used. Soft, low-durometer squeegees easily conform to irregularities in the substrate and various tension levels in the screen. Harder, more-rigid, high-durometer squeegees accurately flood and force the ink through the mesh while maintaining uniform off-contact release.

6. EDGE - The following shapes are available:

A. SQUARE-EDGE: For printing on flat objects.

B. ROUNDED: (Bull Nose) For extra-heavy deposits. For printing light colors on dark backgrounds or printing with fluorescent inks. Many textile applications.

C. SINGLE-SIDED BEVEL EDGE: For use by Glass or Nameplate printers.

D. DOUBLE-SIDED BEVEL EDGE: For direct printing on uneven surfaces; bottles.

A   B   C   D
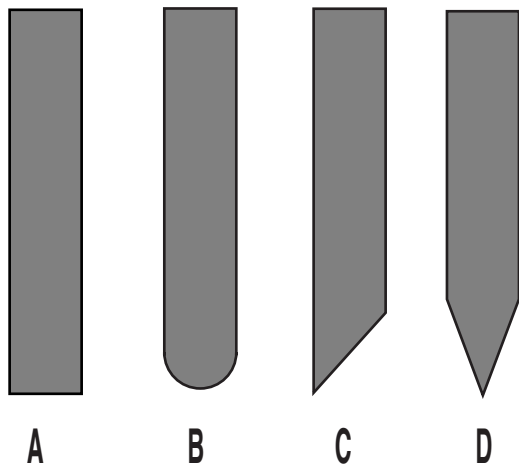
CHEROKEE II BLADES

Solvent and UV Resistant, natural color
A new type of polyplastic blade that is both UV and solvent resistant. Highly impervious to solvents, all polyplastic blades have four times more abrasion resistance than non-poly blades even without sharpening. They are extremely firm for long use. All durometers available in natural color only.

Square Edge, Style A

14-6621-7	3/16X1"	Med-Hard (70 Duro)
14-6651-7	1/4 x 1"	Med-Hard (70 Duro)
14-6651-75	1/4 x 1"	Hard (75 Duro)
14-6651-8	1/4 x 1"	Ex Hard (80 Duro)
14-6661-6	3/8 x 2"	Soft (60 Duro)
14-6661-65	3/8 x 2"	Medium (65 Duro)
14-6661-7	3/8 x 2"	Med-Hard (70 Duro)
14-6661-75	3/8 x 2"	Hard (75 Duro)
14-6661-8	3/8 x 2"	Ex Hard (80 Duro)
14-6661-85	3/8 x 2"	Very Hard (85 Duro)

Double-Bevel, Style D

14-6624-6	3/16 x 1"	Soft (60 Duro)
14-6624-7	3/16 x 1"	Med-Hard (70 Duro)
14-6624-8	3/16 x 1"	Ex Hard (80 Duro)

Serilor®SR squeegee is an all purpose polyurethane blade with good combined resistance to chemicals and abrasion. It was developed to withstand various applications in screen printing. The industry standard S1 is a universal grade, your ideal choice for non critical abrasive application or when using common screen inks. Serilor®SR blades are manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Our exclusive computer controlled casting process guarantees batch to batch consistency. Each serilor® SR blade is inspected for edge quality and profile

SR are universal use squeegees
HR are high resistance squeegees
LC are value squeegees, ideal for textile printing..

SR Square Edge, Style A

14-3861-6	3/8 x 2"	Medium (60-65)
14-3861-7	3/8 x 2"	Hard (70-75)
14-3861-8	3/8 x 2"	X-Hard (80-85)

HR Square Edge, Style A

14-3871-6	3/8 x 2"	Medium (60-65)
14-3871-7	3/8 x 2"	Hard (70-75)
14-3871-8	3/8 x 2"	X-Hard (80-85)

LC Square Edge, Style A

14-3061-6	3/8 x 2"	Medium (60-65)
14-3061-7	3/8 x 2"	Hard (70-75)
14-3061-8	3/8 x 2"	X-Hard (80-85)

LC Triple Durometer Square Edge, Style A

14-3261-5	3/8 x 2"	55/90/55
14-3261-6	3/8 x 2"	62/90/62
14-3261-7	3/8 x 2"	72/90/72
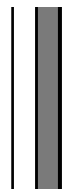
SQUEEGEES

Watts have been manufacturing the Watts Squeegee Blade for over 35 years. Regarded as one of the World's leading developers and manufacturers, Watts offers possibly the most comprehensive range of Squeegee Blades available to the Screen Printing industry.

8000 Series Vulkollan Blades
Vulkollan Squeegee Blades of special polyurethane composition are a first choice of advanced screen printers worldwide. They are flexible, tough, impervious to most solvents and nonswelling. Uniform blade edges meet even the exacting requirements of thick film and printed circuit production.

Square Edge, Style A

14-2461-6	3/8 x 2"	Medium (60-65)	Red
14-2461-7	3/8 x 2"	Hard (70-75)	Green
14-2461-8	3/8 x 2"	X-Hard (80-85)	Blue

Double Bevel Style D

14-2424-7	3/16 x 1"	Hard (70-75	Green
14-2424-8	3/16 x 1"	X-Hard (80-85)	Red
14-2464-7	3/8 x 2"	Hard (70-75	Green
14-2464-8	3/8 x 2"	X-Hard (80-85	Blue

2000 Series Premium Blades
2000 Series is a premium Watts Squeegee product offering market leading performance, similar to Vulkollan, at competitive prices. This material delivers high abrasion resistance, impressive chemical resistance and very good all round properties. Suitable for use in a wide range of Screen Printing applications.

Square Edge, Style A

14-2561-6	3/8 x 2"	Medium (60-65)	Red
14-2561-7	3/8 x 2"	Hard (70-75)	Green
14-2561-8	3/8 x 2"	X-Hard (80-85)	Blue

7000 Series Blades
7000 Series is an extremely good value range of Watts Squeegee blades, offering the same high quality as all Watts Squeegee Blades, with good performance across the range of products. Most commonly used for textile printing but is popular across a broad spectrum of Screen Printing applications.

Square Edge, Style A

14-2661-6	3/8 x 2"	Medium (60-65)
14-2661-7	3/8 x 2"	Hard (70-75)
14-2661-8	3/8 x 2"	X-Hard (80-85
14-2661-9	3/8 x 2"	XX-Hard (90)

Square Edge, Style A Triple Durometer

14-3661-5	3/8 x 2"	55/95/55 Durometer
14-3661-6	3/8 x 2"	65/95/65 Durometer
14-3661-7	3/8 x 2"	75/95/75 Durometer

Single Bevel, Style C

14-2663-7	3/8 x 2"	Hard (70-75)

Double Bevel, Style D

14-2624-7	3/16" x 1"	Hard (70-75)
14 2624-8	3/16" x 1"	Ex Hard (80-85)
14-2664-7	3/8 x 2"	Hard (70-75)
14-2664-8	3/8 x 2"	E-Hard (80-85)
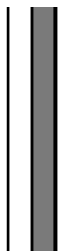
Pleiger Plastics Company has been an innovative and leading manufacturer of High Performance Plei-Tech® polyurethane screen printing squeegees since 1986. Plei-Tech® compounds are custom formulated to achieve high solvent resistance and excellent abrasion resistance.

PT-15 Plei-Tech®
Plei-Tech® Squeegee Blades of special polyurethane composition are a first choice of advanced screen printers worldwide. They are flexible, tough, impervious to most solvents and nonswelling. Uniform blade edges meet even the exacting requirements of thick film and printed circuit production

Square Edge, Style A

14-4421-6	3/16 x 1"	Medium (60-65)
14-4421-7	3/16 x 1"	Hard (70-75)
14-4461-6	3/8 x 2"	Medium (60-65)
14-4461-7	3/8 x 2"	Hard (70-75)
14-4461-8	3/8 x 2"	X-Hard (80-85)

Single Bevel, Style C

14-4423-8	3/16 x 1"	X-Hard (80-85)

Double Bevel, Style D

14-4414-7	3/16 x 7/8"	70 Duro
14-4414-8	3/16 x 7/8"	80 Duro
14-4414-9	3/16 x 7/8"	90 Duro
14-4424-7	3/16 x 1"	Hard (70-75)
14-4424-8	3/16 x 1"	X-HARD (80-85)
14-4424-9	3/16 x 1"	XX-HARD (90+)

PT-22 Poly-Plastic
Highly impervious to solvents and chemicals, these blades are cast from durable and flexible polyurethane. All polyplastic blades have four times more abrasion resistance than non-poly blades even without sharpening. They are extremely firm for long use.

Square Edge, Style A

14-4621-7	3/16 x 1"	Hard (70-75)
14-4621-8	3/16 x 1"	X-Hard (80-85)
14-4621-9	3/16 x 1"	XX-Hard (90+)
14-4661-7	3/8 x 2"	Hard (70-75)
14-4661-8	3/8 x 2"	X-Hard (80-85
14-4661-9	3/8 X 2"	XX-Hard (90+)

Bull Nose, Style B

14-4662-5	3/8 x 2"	Soft (50-55)
14-4662-6	3/8 x 2"	Medium (60-65)
14-4662-7	3/8 x 2"	Hard (70-75)

Single Bevel, Style C

14-4633-6	3/8 x 1"	Medium (60-65)
14-4633-7	3/8 x 1"	Hard (70-75)
14-4633-8	3/8 x 1"	X-Hard (80-85)

Double Bevel, Style D

|		
14-4614-7	3/16 x 7/8"	Hard (70-75)
14-4614-8	3/16 x 7/8"	X-Hard (80-85)
14-4624-7	3/16 x 1"	Hard (70-75)
14-4624-8	3/16 x 1"	X-Hard (80-85)
14-4644-8	3/8 x1-3/8"	X-Hard (80-85)

PLEIGER
Triple Durometer

Plei-Tech® or Poly Plastic blades made up of three laminated sections of plastic. Available in either 60/90/60 or 70/90/70 durometers. These blades allow more pressure with less flex than single durometer blades while enjoying the benefit of a soft edge.

PT-15 Plei-Tech® Trible Durometer
14-5861-6   3/8 x 2"   60/90/60
14-5861-7   3/8 x 2"   70/90/70

PT-22 Poly-Plastic
14-5661-6   3/8 x 2"   60/90/60
14-5661-7   3/8 x 2"   70/90/70
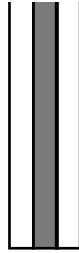
When ordering a squeegee holder always specify:

1. Length - Indicate the size needed up to 12'. Other custom-cut sizes are available. The squeegee must be long enough to completely cover the image, leaving one to two inches around the edges of the frame.

2. Height - Generally the height of the handle is predetermined according to manufacturer's specifications. The handle heights available from the detailed specification charts.

3. Blade - The type of blade, including composition, durometer, edge, and most importantly, size and thickness, should be specified when ordering a corresponding handle. The handle must hold the blade firmly, and be designed specifically for the thickness of the blade.

4. Stock - Handles are available in both wood and metal.

5. Press Specifications - When ordering a squeegee holder designed for the use with a screen printing press, always specify the make of the press, model and serial number as well as the printing material.

HAND PRINTING SQUEEGEE HANDLES

Classic Wood Shaped Handle

Grooved for 3/8" squeegee blades. Exclusive slit-design insures tight fit. Holes not drilled. The most popular squeegee. (Bolts and blade not included) Priced per inch.

14-8189-4   Style No. 1 - 4" height.
14-8290-0   Style No. 2 - 5" height.
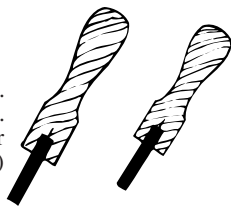
All-Aluminum Contoured Squeegee

All aluminum contoured squeegee handles are made for permanent use with telescopic bolts for easy squeegee rubber replacement. The adjustable rod in the center top of the handle can be extended out for resting on frame sides. Handle is similar in shape to a classic 2 wood handle. Blade not included.

14-8902-0   All Aluminum Contoured Handle
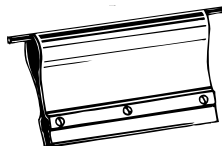
All-Aluminum Ergonomic Squeegee

All aluminum ergonomic squeegee handles are made for permanent use with telescopic bolts for easy squeegee rubber replacement. The unique shape allows the user less fatigue over long jobs. Blade not included.

14-8903-2   Aluminum Ergo Grip Handle

MACHINE PRINTING SQUEEGEE HANDLES

Standard Aluminum Kwik-Clamp Holder

Metal holder with raised edges on both of the long sides of the top. Designed to fit any press with a 1" holding bar. Presses include: Cameos, Eagles, Arrows, International, Viking & Multiprinters after December 1980. Also fits newer style M&R, Lawson & Anatol Squeegee blade extra. Older presses might require new U-Clamp holding brackets. Priced per inch
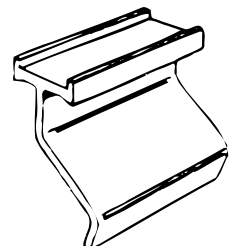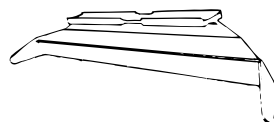
14-8172-0   Standard Alum. Kwik-Clamp Holder
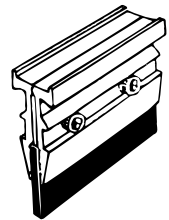
U-Clamp

Designed to work with either the holder above or flood bar below. For Advance/American, M&R, Argon, Lawson, Anatol, and other presses with a 1" holding bar. Knobs are sized for old and new presses.

AWT-UC-GA1   U-Clamp holder

Flood Bars

For Advance/American, M&R, Argon, Lawson, Anatol, and other presses with a 1" holding bar. One piece light weight aluminum design glides smoothly across the screen. In either square end or wing tip versions.

43-4865-2   Square End Flood Bar
43-4868-3   Wing Tip Flood Bar
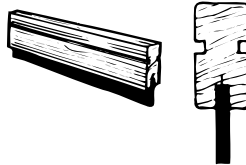
American One-Man / AO Handle

Fits American one man, M&M AO, Panther presses. 3-5/8" x 1-11/32" Bolts not included. Priced per inch. Squeegee blade extra.
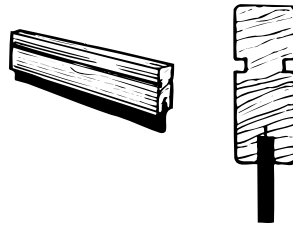
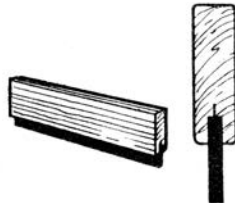14-8582-0   Wood Handle

M & M AOA, S12 Handle

Shorter version of the above. Wood is 2-5/8" x 1-11/32"O.D. Bolts not included. Squeegee blade extra.
Priced per inch

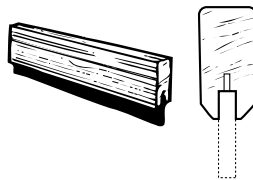14-8583-8   Wood Handle for model AOA

Filbar · Pace · Lawson

Wood holder for Filbar, Pace, Lawson. Wood is 3-3/4" x 7/8" o.d. Squeegee blade extra. Bolts not included. Priced per inch.

14-8179-5   Filbar, Pace, Lawson

Cincinnati One Man

Wood holder for Cincinnati. 3-1/2" x 1-3/8" Squeegee blade extra. Bolts not included. Priced per inch.

14-8910-3   Cincinnati One Man

Aluminum Telescopic Fastening Bolts

The ideal fastener for squeegee blades, they are rust proof and easy to assemble. The screw turns into the telescopic nut so that nothing rough protrudes. Select the proper length range for your handle (1" to 1-1/4" is usually best for classic wood handles.

| Each	Per 100	Fastening Range
14-1207-1	14-1211-3	3/4 to 1"
14-1208-9	14-1212-1	1 to 1-1/4"

Squeegee Sharpening Garnet
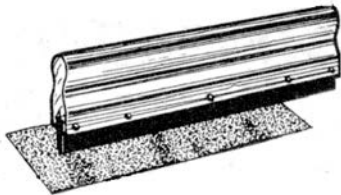
Sharpens all square edge squeegee blades. An extra heavy, hard surfaced garnet provides sharp abrasive for sharpening to the proper fineness. Stable to plywood to keep flat and firm. Standard width is four inches, sold by the yard.

14-1803-7   Squeegee Sharpening Garnet   Yard
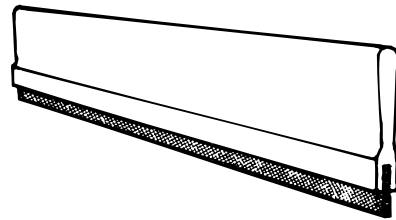
The squeegees listed below are complete handle and blade assembled with aluminum telescopic fastening bolts. Handles are clear, kiln dried Ponderosa Pine with all edges smoothly finished. All squeegee blades are pre-sharpened.

Polyplastic Complete Squeegees
60 Durometer Classic 2, 5" Wood Handles

C2P6-02	2"	C2P6-12	12"	C2P6-24	24"
C2P6-03	3"	C2P6-13	13"	C2P6-26	26"
C2P6-04	4"	C2P6-14	14"	C2P6-28	28"
C2P6-05	5"	C2P6-15	15"	C2P6-30	30"
C2P6-06	6"	C2P6-16	16"	C2P6-32	32"
C2P6-07	7"	C2P6-17	17"	C2P6-34	34"
C2P6-08	8"	C2P6-18	18"	C2P6-36	36"
C2P6-09	9"	C2P6-20	20"	C2P6-42	42"
C2P6-10	10"	C2P6-22	22"	C2P6-48	48"
C2P6-11	11"				

70 Durometer Classic 2, 5" Wood Handles

C2P7-02	2"	C2P7-12	12"	C2P7-24	24"
C2P7-03	3"	C2P7-13	13"	C2P7-26	26"
C2P7-04	4"	C2P7-14	14"	C2P7-28	28"
C2P7-05	5"	C2P7-15	15"	C2P7-30	30"
C2P7-06	6"	C2P7-16	16"	C2P7-32	32"
C2P7-07	7"	C2P7-17	17"	C2P7-34	34"
C2P7-08	8"	C2P7-18	18"	C2P7-36	36"
C2P7-09	9"	C2P7-20	20"	C2P7-42	42"
C2P7-10	10"	C2P7-22	22"	C2P7-48	48"
C2P7-11	11"				

80 Durometer Classic 2, 5" Wood Handles

C2P8-02	2"	C2P8-12	12"	C2P8-24	24"
C2P8-03	3"	C2P8-13	13"	C2P8-26	26"
C2P8-04	4"	C2P8-14	14"	C2P8-28	28"
C2P8-05	5"	C2P8-15	15"	C2P8-30	30"
C2P8-06	6"	C2P8-16	16"	C2P8-32	32"
C2P8-07	7"	C2P8-17	17"	C2P8-34	34"
C2P8-08	8"	C2P8-18	18"	C2P8-36	36"
C2P8-09	9"	C2P8-20	20"	C2P8-42	42"
C2P8-10	10"	C2P8-22	22"	C2P8-48	48"
C2P8-11	11"				

55/95/55 Triple Durometer Classic 2, 5" Wood Handles

C2P595-02	2"	C2P595-12	12"	C2P595-24	24"
C2P595-03	3"	C2P595-13	13"	C2P595-26	26"
C2P595-04	4"	C2P595-14	14"	C2P595-28	28"
C2P595-05	5"	C2P595-15	15"	C2P595-30	30"
C2P595-06	6"	C2P595-16	16"	C2P595-32	32"
C2P595-07	7"	C2P595-17	17"	C2P595-34	34"
C2P595-08	8"	C2P595-18	18"	C2P595-36	36"
C2P595-09	9"	C2P595-20	20"	C2P595-42	42"
C2P595-10	10"	C2P595-22	22"	C2P595-48	48"
C2P595-11	11"				

Any size up to 72" in length can be made. Also, 65/95/65 and 75/95/75 trible durometer available

Rex Hardness Gauge

Rex hardness gauges with initial and creep readings measure any squeegee blade materials and accurately display the durometer reading on its rotating wheel. This specialized durometer test instrument is accurate to within plus or minus 1/2 point. It includes a secure wooden box for safe storage.

74-1806-4 Rex Hardness Guage

SCREEN FABRIC INFORMATION
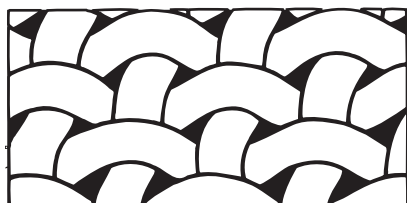
BASIC CONSTRUCTION:

MULTIFILAMENTS - a group of very fine threads twisted together. Weaving is limited to coarser fabrics, 20 threads per inch to 225 threads per inch.

MONOFILAMENTS - single strands of man-made fibers or metal mesh. Because of their uniform construction and tensile strength, they can be woven into finer screen printing fabrics up to 465 threads per inch.

Multifilament Construction
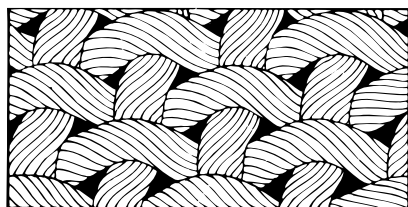
Monofilament Construction

The screen fabric should be selected for the specific type of product to be screen printed with consideration given to the ink. Three primary factors are important in the selection of screen printing fabrics:

1. **CONSTRUCTION** - Weave (plain, twill 2 or twill 3) thread diameter and type of filament.

2. **MATERIAL -** Polyester, nylon, stainless steel.

3. **MESH OPENING** - Mesh opening is the space between filaments (thread).

POLYESTER MULTIFILAMENT DACRON is woven with many very fine fibers twisted together, similar to silk (which is seldom used) but features more uniformity and extreme durability. Ideal for textile applications for better ink deposit and easier ink passage.

NYLON MONOFILAMENT fabrics used in screen printing are of monofilament construction. Therefore inks will not build up or cling to the singular smooth thread. A uniform print will result from fine mesh nylon using a wide variety of inks. It is most important to stretch this fabric very taut to maintain print registration and screen life. Nylon is excellent for rough and uneven surfaces.

POLYESTER MONOFILAMENT fabrics offer the same qualities and advantages of nylon with the additional feature of excellent registration due to its dimensional stability. Since this fabric has so little stretch it will not change size with varied temperature and humidity.

STAINLESS STEEL fabric (monofilament) is used exclusively for the ultimate in print registration. Although it is quite stable, it will stretch and is not resilient, therefore a retensionable chase must be used. Stainless steel fabrics will deform and kink under pressure and mishandling.

METAL PLATED POLYESTER fabric is a new mesh made of metallized monofilament polyester threads and specially produced for screen printing. Highly desirable features include excellent adhesion of indirect stencil films; very good dimensional stability; high resistance to abrasion; high stability of the threads in the meshes (non-slip finish); anti-static and heatable (for printing with thermoplastic inks).

MESH COUNT EQUIVALENTS:

Silk	Dynex-Apex Multi-Polyester	Monofilament Nylon, Nitex	Monofilament Polyester PeCap, Super Strong	Stainless Steel
2XX	----	40-50	----	60
4XX	----	63-70	60	60-80
6XX	6XX-7XX	70-77-83	86	80-105
8XX	8XX	83-90	86-95-110	105-120
10XX	10XX	103-108-114	110-125	120-145
12XX	12XX-14XX	120-132-160	125-140-160	145-165
14XX	14XX	160-180-200	160-180-200	180-200
16XX	16XX	220-230-245	205S-200-232-245	230-250
18XX	18XX	265-285-305	234S-262-280-305	250-270
20XX	20XX	305-310-335	285S-305-330	270-325
25XX	25XX	310-340-355-360-380	310S-350-390	325-400
30XX	30XX	340-360-385-420-465	350-390	400-508

PET 1500 YELLOW

Swiss Monofilament Polyester - Plain Weave

Pet 1500 low elongation monofilament polyester has excellent registration accuracy and dimensional stability. It surpasses ordinary screen fabric in chemical and mechanical abrasion resistance, and equalization of warp and weft elongation. Pet 1500 is recommended for fine line reproduction, large screens, halftones, and multicolor work demanding dimensional stability. Pet 1500 is available in white, and Yellow. Pet 1500 Yellow offers Optimum balance between reduced light scatter and ease of registration. The exposure time is longer, and contrast between fabric surface and emulsion coating is improved. Yellow offers the most uniform color density.
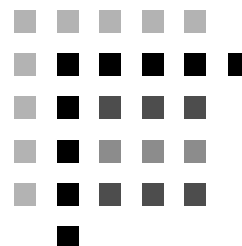
S E F A R
Mesh + Technology

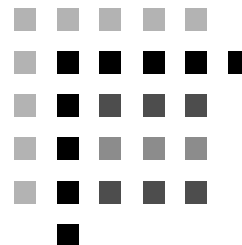| Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 83" Width	Cat.No 100" Width
83	209	44.5	100	35-1083-4		35-1083-6		
110	149	40.8	80	35-1110-4	35-1110-5	35-1110-6	35-1110-8	
123	133	40.9	70	35-1123-4	35-1123-5	35-1123-6		
137	115	38.7	64	35-1137-4	35-1137-5	35-1137-6	35-1137-8	
156	90	30.1	64	35-1156-4	35-1156-5	35-1156-6	35-1156-8	
175	85	33.5	55	35-1175-4	35-1175-5	35-1175-6	35-1175-8	
195	67	26.5	55	35-1195-4	35-1195-5	35-1195-6	35-1195-8	
230	68	37.6	40	35-0230-4	35-0230-5	35-0230-6	35-0230-8	
230	55	24.6	48	35-1230-4	35-1230-5	35-1230-6	35-1230-8	35-1230-1
240	62	35.0	40	35-0250-4	35-0240-5	35-0240-6		
240	50	22.8	48	35-1240-4				
255	57	32.5	40	35-1260-4	35-1260-5	35-1260-6	35-1260-8	
280	54	35.2	34	35-1280-4	35-1280-5	35-1280-6	35-1280-8	
280	47	26.6	40	35-9280-4	35-9280-5	35-9280-6	35-9280-8	
305	49	35.0	31	35-0305-4	35-0305-5	35-0305-6		
305	45	29.6	34	35-1305-4	35-1305-5	35-1305-6		35-1305-1
305	37	20.0	40	35-9305-4	35-9305-5	35-9305-6	35-9305-8	
330	40	26.9	34	35-1330-4	35-1330-5	35-1330-6	35-1330-8	
355	36	26.0	31	35-0355-4	35-0355-5	35-0355-6	35-0355-8	
355	31	19.3	34	35-1355-4	35-1355-5	35-1355-6	35-1355-8	35-1355-9*
380	32	23.3	31	35-0390-4	35-0390-5	35-0390-6	35-0390-8	
380	23	12.1	34	35-1390-4	35-1390-5	35-1390-6	35-1390-8	35-1380-9*
420	23	14.5	31	35-0420-4	35-0420-5	35-0420-6	35-1420-8	35-1420-1
460	22	15.1	27	35-0460-4		35-0460-6		
*96"								

PET 1500 LE YELLOW - TWILL

Twill is similar in thickness to the plain weave shown above. The difference is in how they are woven. Twill is woven either 2 strands over, one strand under; or 2 strands over 2 strands under. This leads to more open area in the mesh, and therefore a greater ink deposit.

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width
355	33	21.2	34		38-8355-5	38-8355-6	35-8355-8
380	26	15.4	34	38-8380-4	38-8380-5	38-8380-6	35-8380-8
420	23	13.9	34	38-8420-4	38-8420-5	38-8420-6	35-8420-8
460	20	12.4	41	38-8460-4			

PET 1000 WHITE

Swiss Monofilament Polyester - Plain Weave

Pet 1000 low elongation monofilament polyester has excellent registration accuracy and dimensional stability. It surpasses ordinary screen fabric in chemical and mechanical abrasion resistance, and equalization of warp and weft elongation. Pet 1000 is recommended for fine line reproduction, large screens, halftones, and multicolor work demanding dimensional stability. Pet 1000 is available in white, and Yellow. Pet 1000 White offers one of the most durable fabrics available. The exposure time is shorter than yellow, and is offered in a wider variety of mesh counts.

SEFAR
Mesh + Technology

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width	Cat. No. 100" Width
25	739	57.8	260	35-2025-4	35-2025-5	35-2025-6		
40	465	48.6	200	35-2040-4	35-2040-5	35-2040-6		
60	294	49.7	120	35-2060-4	35-2060-5	35-2060-6		
60	270	41.9	140	35-6060-4	35-6060-5	35-6060-6	35-6060-8	
76	211	40.2	120	35-2076-4	35-2076-5	35-2076-6	35-2076-8	
83	209	44.5	100	35-2083-4	35-2083-5	35-2083-6	35-2083-8	
92	174	39.1	100	35-2092-4	35-2092-5	35-2092-6		
110	149	40.8	80	35-2110-4	35-2110-5	35-2110-6	35-2110-8	35-2110-1
123	133	40.9	70	35-2123-4	35-2123-5	35-2123-6	35-2123-8	35-2123-1
137	115	38.7	64	35-2137-4	35-2137-5	35-2137-6	35-2137-8	35-2137-1
156	90	30.1	64	35-2156-4	35-2156-5	35-2156-6	35-2156-8	
175	85	33.5	55	35-2175-4	35-2175-5	35-2175-6	35-2175-8	35-2175-1
195	67	26.5	55	35-2195-4	35-2195-5	35-2195-6	35-2195-8	35-2195-1
230	55	24.6	48	35-2230-4	35-2230-5	35-2230-6	35-2230-8	35-2230-1
255	57	32.5	40	35-2260-4	35-2260-5	35-2260-6	35-2260-8	35-2260-1
280	54	35.2	34	35-2280-4	35-2280-5	35-2280-6		
280	47	26.6	40		35-9240-5	35-9280-6	35-9240-8	
305	49	35.0	31	35-6305-4		35-6305-6		
305	45	29.6	34	35-2305-4	35-2305-5	35-2305-6	35-2305-8	35-2305-1
305	37	20.0	40	35-9305-4	35-9305-5	35-9305-6	35-9305-8	35-9305-1
330	40	26.9	34	35-9330-4		35-9330-6		
355	36	26.0	31	35-6355-4		35-6355-6		
355	31	19.3	34	35-9355-4	35-9355-5	35-9355-6	35-9355-8	35-9355-9*
380	32	23.3	31	35-6390-4		35-6390-6	35-6390-8	
380	23	12.1	34	35-9390-4	35-9390-5	35-9390-6	35-9390-8	
420	23	14.5	31	35-6420-4		35-6420-6	35-6420-8*	
460**	21	13.7	31	35-9460-4		35-9460-6		
480**	16	9.0	31	35-9480-4				

*96'   **Twill

LX MESH

A totally new mesh based on the latest technology. LX Mesh uses a unique thinner monofilament polyester thread. This allows more ink to be deposited for brilliant white base prints with halftones and details. LX Mesh lays the ink on the surface of the shirt with far less squeegee pressure, creating the softest prints possible. Discharge prints much easier with brighter prints and more detail, halftones are possible on mesh counts above 150 tpi. LX Mesh is available in white only.

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42/45" Width	Cat.No. 51/53" Width	Cat.No. 62/63" Width	Cat.No. 82/90" Width
LX80	263	68	55		31-0080-5	31-0080-6	
LX135	140	55	48		31-0135-5	31-0135-6	
LX150	121	51	48		31-0150-5	31-0150-6	
LX180	93	44	48			31-0180-6	

Northwest Graphic Supply Co.
4200 East Lake St. • Minneapolis, MN 55406

nwgraphic.com

S MESH

S Mesh is woven with a thinner diameter thread than standard mesh. These thinner threads increase the open area of the mesh. More open area equals less squeegee pressure needed to clear the ink from the screen. Excellent for white bases, discharge, etc.

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Color	Cat.No. 42/45" Width	Cat.No. 51/53" Width	Cat.No. 61/63" Width
80	247	60	71	White	31-1080-4	31-1080-5	31-1080-6
110	160	48	71	White	31-1110-4	31-1110-5	31-1110-6
135	140	55	48	Yellow	N/A	31-2135-5	31-2135-6
150	121	51	48	White	N/A	N/A	31-1150-6
150	121	51	48	Yellow	31-2150-4	31-2150-5	31-2150-6
160	111	49	48	White	31-1160-4	31-1160-5	31-1160-6
180	93	40	48	Yellow	31-2180-4	31-2180-5	31-2180-6
200	79	39	48	Yellow	N/A	31-2200-5	31-2200-6
225	73	42	40	Yellow	N/A	32-2225-5	32-2225-6
310	52	40	30	Yellow	32-2310-4	32-2310-5	32-2310-6

SEFAR® BASIC POLYESTER FABRIC

First quality monofilament polyester by Sefar, made in the Orient. Available in Yellow and white (not in all mesh counts) in a limited range of mesh counts to hold costs down. Very low pricing. Ideal for textile printing.

MONOFILAMENT POLYESTER FABRIC

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Color	Cat.No. 45" Width	Cat.No. 53" Width	Cat.No. 62" Width
83	209	44.5	100	White	30-0080-4	30-0080-5	30-0080-6
110	149	40.8	80	White	30-0110-4	30-0110-5	30-0110-6
123	133	40.9	70	White	30-0123-4	30-0123-5	30-0123-6
137	115	38.7	64	White	30-0137-4	30-0137-5	30-0137-6
156	90	30.1	64	White	30-0156-4	30-0156-5	30-0156-6
156	90	30.1	64	Yellow	N/A	30-1156-5	30-1156-6
180	88	39	55	White	30-0180-4	30-0184-5	30-0184-6
180	88	39	55	Yellow	N/A	30-1184-5	30-1184-6
195	67	26.5	55	White	30-0195-4	30-0195-5	30-0195-6
195	67	26.5	55	Yellow	30-1195-4	30-1195-5	30-1195-6
230	55	24.6	48	White	30-0230-4	30-0234-5	30-0234-6
230	55	24.6	48	Yellow	30-1230-4	30-1234-5	30-1234-6
255	57	32.5	40	Yellow	30-1255-4	30-1255-5	30-1255-6
280	47	26.6	40	Yellow	N/A	N/A	32-1280-6
305	45	29.6	34	Yellow	30-1305-4	30-1305-5	30-1305-6

MULTIFILAMENT POLYESTER FABRIC

Multifilament fabric is woven for strength and is inert to all solvents. Photo films, hand-cut films, and emulsions all adhere very well. Ideal for general textile printing, posters and banners. Multifilament screens are very easy to reclaim.

MULTIFILAMENT POLYESTER FABRIC

Mesh No.	Mesh Opening (Microns)	% Open Area	Thread Diameter (Microns)	Cat.No. 42" Width	Cat.No. 52" Width	Cat.No. 62" Width	Cat.No. 80" Width
6XX	233	41	130	34-1006-4	34-1006-5	34-1006-6	
8XX	185	38	131	34-1008-4	34-1008-5	34-1008-5	
10XX	140	35	95	34-1010-4	34-1010-5	34-1010-6	34-1010-8
12XX	107	28	95	34-1012-4	34-1012-5	34-1012-6	34-1012-8
14XX	99	29	85	34-1014-4	34-1014-5	34-1014-6	34-1014-8

STAINLESS STEEL WIRE CLOTH

Stainless steel wire cloth is the best fabric choice where sharpness and close-tolerance printing are vital. Micro-circuits, pc boards, and electronic parts are typical applications. Other meshes and widths are also available. Many mesh sizes available on special order

612-729-7361 ---- Phone
612-729-6647 ---- Fax
nwgraphic.com
800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
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FABRIC TENSIONING

Choosing the right tension level is dependent on several factors. The type of job, registration necessary, fabric type and thread diameter, tensioning device, frame profile, etc. Other factors include printing equipment, off contact desired, and skill of the screen maker and printer.Sefar has developed a guide for tensioning screens based on three levels of stretch.

Level I:
Fabric should be stretched to this level by screen makers using tensioning equipment of lower state-of-the art sophistication. Large format frames (50" and over) should also use Level I tensions.

Level II:
Advanced screen makers using stable frames and state-of-the-art equipment, with proper tensioning procedures should stretch to Level II tensions. Caution is required while stretching, and minimum off contact during printing.

LEVEL III:
Only expert screen makers using stable frames(with a maximum size of 55") and state of the art tensioning units, with proper tensioning procedure should attempt to stretch to Level III tension levels. Level III tensions are the maximum to be attempted. Minimal off contact during printing is required.

NOTE:
Higher tensions bring fabric closer to their ultimate tensile breaking strength. This leaves less room for stretching

Mesh Count	Thread Diameter	Theoretical Ink Volume	Relative Fabric Strength	Level I	Level II	Level III
25	260	253.9	0.531	20	35	55
40	200	172.5	0.471	20	34	54
60	120	109.3	0.271	20	29	35
60	140	104.7	0.369	20	30	47
76	120	84.4	0.339	18	28	44
83	100	73.5	0.251	18	33	40
92	100	68.5	0.283	18	38	45
110	80	53.1	0.216	32	42	51
123	70	47.1	0.185	27	35	43
137	64	38.7	0.174	26	34	42
156	64	30.4	0.196	30	39	48
175	55	28.5	0.162	24	31	38
195	55	23.4	0.183	27	35	43
230	48	19.2	0.163	24	33	40
255	40	20.5	0.126	20	26	32
280	34	18.3	0.100	16	21	26
280	40	17.0	0.138	20	26	32
305	31	17.1	0.091	16	21	26
305	34	16.3	0.109	17	22	27
305	40	12.6	0.151	23	30	37
330	34	14.8	0.118	18	23	29
355	31	12.5	0.106	17	22	27
355PW	34	10.2	0.127	18	23	29
355TW	34	12.7	0.127	20	26	32
380	31	11.4	0.113	17	22	27
380	34	6.7	0.136	20	26	32
380TW	34	9.3	0.136	21	27	34
420	31	7.0	0.125	19	25	31
460	27	6.5	0.103	16	2 1	26

FABRIC ADHESIVES

PREMIUM QUALITY FABRIC ADHESIVE 4200-4300 SERIES

This amazing chemical discovery will save you hours of set-up time everyday. Your labor costs will be dramatically reduced! In fewer than three minutes you can stretch fabric, apply adhesive and fully cure. Field-tested on frames up to 6 by 14 feet. The overlap sheer tension is in excess of 2500 lbs. --so tough that it will never pop off by itself. Yet, fabric can easily be peeled off when it is time to remesh.

4200 Premium Series - High viscosity adhesive for use with such course mesh fabrics as 6XX through 230.

4300 Premium Series - Low viscosity adhesive which is thinner and spreads readily through the finest meshes.

High Viscosity	Low Viscosity	
SYS-4200-02	SYS-4300-02	2 oz. Fabric Adhesive
SYS-4200-04	SYS-4300-04	4 oz. Fabric Adhesive
SYS-4200-08	SYS-4300-08	8 oz. Fabric Adhesive
SYS-4200-16	SYS-4300-16	16 oz. Fabric Adhesive

ENGINEERING QUALITY FABRIC ADHESIVE 3200 SERIES

This Engineering Grade adhesive has the same solvent resistance, tension strength, mileage and flexibility as the Premium adhesives, but it has a slightly slower cure time, approximately 12 to 15 seconds to cure.

SYS-3200-08	8 oz. Engineering Quality Adhesive
SYS-3200-16	16 oz. Engineering Quality Adhesive

TRADE QUALITY FABRIC ADHESIVE 3100 SERIES

This adhesive has been specially formulated to compete against the very low priced products in the market place. 3100 will be a pleasant surprise for users of competitive products. You will find a slightly higher odor product that has better adhesion than any product in its price range. Give 3100 a try, and see how good it is for the price. Approximately 12 to 15 second cure.

SYS-3100-16	16 oz. Trade Quality Fabric Adhesive

™£

ACTIVATOR 4000 SERIES AEROSOL, PUMP & BULK

Used in combination with any Screen Systems Adhesive, the Activator Spray causes the adhesive to care (harden) in 4 to 6 seconds. The Activator itself is non-toxic, and this excellent aerosol package sprays a clean fine mist until the contents are entirely used. The propellant is the same as used in most aerosols. The Activator acts as the catalyst which, when sprayed onto the adhesive, begins the instant curing process. If used very sparingly as recommended, one aerosol can will cover 16 oz. of adhesive. Spray will not clog or damage screens.

SYS-4000-08	8 oz. Activator (Spray Pump)
SYS-4000-12	12 oz. Activator (Aerosol)
SYS-4000-32	32 oz. Activator (Quart)
SYS-4000-36	128 oz. Activator (Gallon)

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WIPE-ON ACTIVATOR
4010 SERIES

Wipe - On Activator is a revolution in fabric adhesive. For the first time there is no need to put anything into the air in order to activate your adhesive. This activator can be used in several ways for easy application. Best of all is the Magic Applicator, a marker type applicator that puts down just the right amount of activator for top results. This activator will pull the adhesive to the surface of the frame. Care should be used not to "puddle" the activator as this will dissolve the adhesive and weaken the bond.

-Frame Application
Apply the activator to the frame before it is in the stretcher with either the 4010-01 Magic Applicator, or the 4010-05 Giant Wipe-On Applicator. Put frame into the stretcher and stretch fabric to desired tension. Apply a 1/8" bead of adhesive where activator has been applied and spread with card or squeegee. Adhesive will cure in normal time. Activator may be applied the day before stretching.

Magic Applicators can be refilled from any of the bulk containers.

SYS-4010-01	1 oz.	Magic Applicator
SYS-4010-05	Giant	Wipe-On Applicator
SYS-4010-16	16 oz.	Bulk Bottle
SYS-4010-Q	Qt.	Bulk Bottle
SYS-4010-G	Gal	Bulk Can

FRAME PREPARATION
5100 SERIES
(Isopropyl Alcohol)

A mild solvent cleaner which evaporates without a trace. Can be used on wood, metal, or plastic frames to remove grease and dirt, and to insure maximum strength bonds.

SYS-5100-36	Gal.	Frame Prep. Cleaner
SYS-5100-50	5 Gal.	Frame Prep. Cleaner

SAFETY SOLVENT
5000 SERIES

This unusual, exotic product debonds almost any adhesive within a few seconds. It can be used on skin, frames or fabric to remove unwanted adhesive. It is recommended that a quantity of Safety Solvent be kept on hand to dissolve cured adhesive.

Color-coded for your protection:
In its natural state our Safety Solvent has low flammability and is yellow in color. Should the product become flammable, the color will change to purple to indicate that the product should be properly disposed of immediately.

SYS-5000-01	1 oz. Safety Solvent
SYS-5000-08	8 oz. Safety Solvent

B-535 LIQUID SEAL
B-535 FABRIC-TO-FRAME ADHESIVE

Liquid Tape firmly bonds any screen fabric to wood and/or metal frames in only 5 minutes. After air drying, screen tension is maintained at the same reading to which it was set while fabric was being stretched.

.

B-535-Q	Quart	Liquid Tape Order 2 oz. C-536 Catalyst
B-535-G	Gallon	Liquid Tape Order 8 oz. C-536 Catalyst
C-536-02	2oz.	Catalyst for Quart
C-536-08	8oz.	Catalyst for Gallon
T-606	Qt/Gal.	Thinner for use with B-535

SEFAR 301A ADHESIVE

A clear, two-part, medium viscosity adhesive for mesh counts up to 305 per inch. SEFAR 301A has a pot life of 24 hours when properly sealed, and cures between 5-15 minutes depending on adhesive/mesh thickness. Use with catalyst SEFAR Hardener D. Contains Methyl Ethyl Ketone (MEK)

301A	Gallon	Sefar 301A Adhesive

PLASTIC SQUEEGEE

Ideal for spreading adhesives or other coatings. Durable poly plastic. Can be cut into narrower widths.
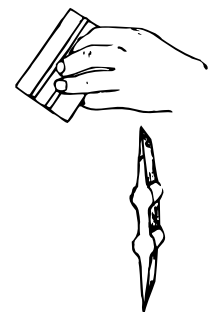
54-6226-2	4" Plastic Squeegee
54-6227-0	6" Plastic Squeegee
54-6228-8	12" Plastic Squeegee
54-6229-2	72" Plastic Squeegee

SCREEN TAPE

SOLVENT RESIST

This white tape type is poly coated for extra solvent resistance. This tape is excellent for the screen printer who wants tape to adhere and stay on the screen through numerous washings with solvent. By Polyken

15-6221-200	White Solvent Resist.Tape 2" x 60yd
15-6221-300	White Solvent Resist Tape 3" x 60yd
15-6221-400	White Solvent Resist Tape 4" x 60yd

PMI WHITE BLOCKOUT

A light weight polyester blockout tape for all screen applications. Solvent and water resistant.

15-6321-200	White Blockout Tape 2" x 110yd.
15-6321-300	White Blockout Tape 3" x 110yd.

R-TAPE BLUE BLOCKOUT

A medium weight tape for screen applications. Solvent and water resistant. Easily formed to the inside of the screen.

RT-2000-200	Blue Blockout Tape 2" x 36yd
RT-2000-300	Blue Blockout Tape 3" x 36yd.
RT-2000-400	Blue Blockout Tape 4" x 36yd.

451 PMI SPLIT LINER

Split liner tapes have a removable back that is split the long way. This enables the screen maker to uncover half of the adhesive at a time. Tape can more easily be pushed into the inside where the fabric meets the frame.
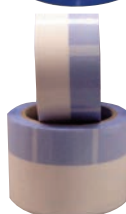
15-6451-200	PMI Split Zone Tape, 2" x 60yd
15-6451-300	PMI Split Zone Tape, 3" x 60yd
15-6451-400	PMI Split Zone Tape, 4" x 60yd

HAND TEARABLE PMI SPLIT LINER TAPE

15 8451 200	Hand Tearable Split Liner Tape 2" x 60yd.
15 8451 300	Hand Tearable Split Liner Tape 3" x 60yd.
15 8451 400	Hand Tearable Split Liner Tape 4" x 60yd.

ECONOMY BLOCKOUT TAPE

A medium weight tape for screen applications. Solvent and water resistant. Easily formed to the inside of the screen.

15-6200-200	White Blockout Tape 2" x 108yd
15-6200-300	White Blockout Tape 3" x 108yd.
15-6200C-200	Clear Blockout Tape 2" x 108yd.
15-6200C-300	Clear Blockout Tape 3" x 108yd.

S2 Metallized Polyester

A 2.0 mil silver metallized, non-top coated polyester tape with a removable acrylic adhesive and a 90lb lay flat liner. Very durable and very thin compared to conventional tapes. Ideal for hot melt screens. 3" x 600' roll, 9 per case

GF-S2-300	Silver Polyester Tape

RIGID ALUMINUM FRAMES

Our rigid aluminum alloy frames meet industry needs for critical registration and dimensional stability necessary for accurate printing. They can be fabricated to meet any overall size. These rigid aluminum frames are made of high strength aluminum alloy extrusions for light weight and easy handling (no gripping mechanisms or floating drawbars are required). Our aluminum frames are sandblasted on the bonding surface for maximum adhesion of fabric to frame. The wall thickness is shown for all models. Models are shown below with their cross-section and recommended maximum frame size in inches.

Size	Thickness	Max. Frame
3/4" x 3/4"	.125	18" x 18"
1 x 1"	.125	24 x 24"
1.5 x 1.5"	.087	45 x 45"
1.5 x 1.5"	.125	46 x 46"
1.5 x 2"	.125	56 x 56"
1.5 x 3"	.125	86 x 86"
1.75 x 4"	.125	86 x 151"

STANDARD SIZE FRAMES

Stock Aluminum Frames

Aluminum frames that are made in quantity in standard textile sizes. Available as frame only, or stretched with your favorite mesh. These are stocked sizes. Custom sizes available.

Cap Frames (One Long Side a Flat Bar)		Bar
FAC-0812	8 x 12" Aluminum Frame	1"
FAC-1016	10 x 16" Aluminum Frame	1"
FAC-1026	10 x 26" Aluminum Frame	1"

Standard Box Frames		Bar
FAI 0912-100	9 x 12" Aluminum Frame	1"
FAI-1012-100	10 x 12" Aluminum Frame	1"
FAI-1014-100	10 x 14" Aluminum Frame	1"
FAI-1216-100	12 x 16 Aluminum Frame	1"
FAI-1418	14 x 18" Aluminum Frame	1"
FAI-1520-100	15 x 20" Aluminum Frame	1"
FAI+1520	15 x 20" Aluminum Frame	1-1/2"
FAI-1820	18 x 20" Aluminum Frame	1-1/2"
FAI-1928	19 x 28" Aluminum Frame	1-1/2"
FAI-2024	20 x 24" Aluminum Frame	1-1/2"
FAI-2032	20 x 32"" Aluminum Frame	1-1/2"
FAI-2331	23 x 31" Aluminum Frame	1-1/2"
FAI-2536	25 x 36" Aluminum Frame	1-1/2"
FAI-3220	32.5 x 20" Aluminum Frame	1-1/2"
FIA-3238	32 x 38" Aluminum Frame	1-1/2"
FAI-3636	36 x 36" Aluminum Frame	1-1/2"

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DIAMOND CHASE TENSIONING FRAMES

NEWMAN ROLLER FRAMES

Stretch Devices Roller Frames

Newman roller frames by Stretch Devices are the industry standard in roller frames. They are available in a wide variety of sizes and weights for any printing need. Custom sizes available

Manual Frames

Model	Bar Type	Std Size	Roller
MZX-UL-1820	1-Sq.	18 X 20" I.D.	1-7/16"
MZX-UL-2316	1-Sq.	23 X 26" O.D.	1-7/16"
MZX-UL-2328	1-Sq.	23 X 28" O.D.	1-7/16"
MZX-UL-2331	4-Rd.	23 X 31" O.D.	1-7/16"

Automatic Frames

Model	Bar Type	Std Size	Roller
M3-UL-2331	4-Rd.	23 X 31" O.D.	1-5/8"
M3-UL-2331	4-Rd.	23 X 31" O.D.	1-5/8"
M3-UL-2533	4-Rd.	25 X 33" O.D.	1-5/8"
M3-UL-2536	4-Rd.	25 X 36" O.D.	1-5/8"
M3-UL-2636	4-Rd.	26 X 36" O.D.	1-5/8"
M3-UL-3142	4-Rd.	31 X 42" O.D.	1-5/8"
M3-UL-3342	4-Rd.	33 X 42" O.D.	1-5/8"
M3-UL-3342	4-Rd.	33 X 42" O.D.	1-5/8"
M3-UL-4751	4-Rd.	47 X 51" O.D.	2"
M3-UL-4752	4-Rd.	47 X 52" O.D.	2"

STRETCH AND LOCK-IN ALL FABRICS
FIVE MODELS FOR EASY STRETCHING/TENSIONING

The Diamond Chase self tensioning frames quickly lock any type of fabric (including stainless) into four frame locking channels. These channels are then tightened away from the center with the use of recessed countersunk allen head or hex head bolts. Frame dimensions and maximum sizes are listed.

WC-20	2.0"	Max. Size ID	30"
T-175	1.875	Max. Size ID	40"
T-175HD	2.5	Max. Size ID	60"
T-200	2.5	Max. Size ID	65"
T-200HD	2.5	Max. Size ID	85"

STOCK WOOD FRAMES

Our wood frames, available with or without mesh, are hand made out of 1-3/4" x 1-5/16" grade # 1 poplar hardwood. They feature an offset two finger mortise & tenon joint for superior strength and durability. By making the strongest wood frame on the market, we're also able to stretch some of the highest mesh tensions available for wood frames. Frames are finished with one coat of sanding sealer, which is then hand sanded. And the finishing is completed with a coat of clear varnish, for solvent and water resistance.

FW-1520	15x20" Wood Frame
FW-1820	18x20" Wood Frame
FW-2024	20x24" Wood Frame
FW-2331	23x31" Wood Frame
FW-2536	25x36" Wood Frame
FW-2832	28x32" Wood Frame

SCREEN TOOLS

Combination Fabric Stretcher

Heavy-duty combination hammer and pliers used for hand stretching fabrics to frame.
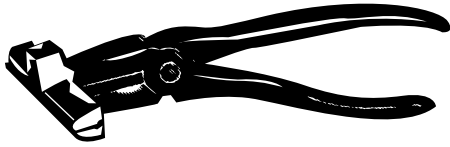
LC-1053-2	Combination Fabric Stretcher

Ultimate Clean Up Card

The Ultimate Clean-Up Card is a tough, inexpensive, disposable ink cleaning tool for screen printers. It is designed to reduce clean-up time, is simple to use, and inexpensive. Ideal for scraping ink, blockout, palette adhesive, and scoop coaters. The double rounded corner can be folded over to scrape out the back rounded bottom of a scoop coater. Case of 1500

CUC	Clean Up Cards
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Washout Spray Nozzle

For washing out all exposed direct contact screens. Standard hose fitting. Squeeze of handle adjusts spray. Features a protective plastic coating that protects from very hot water.
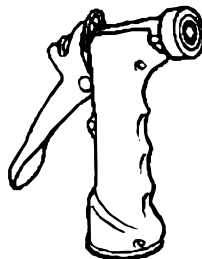
15-7213-0	Spray Nozzle

SV2 VACUUM NOZZLE

One piece aluminum cast nozzle to safely remove water from a freshly developed screen. Bottom slit pulls water off the screen and into your wet or dry vacuum. 9" wide.

AWT-SV-2	Vacuum Nozzle

Tite-Stretch Tool

This easy-to-operate tool presses Tite-Stretch cord into Mite-R-Stix with the tap of a hammer for tightest stretch. Smooth finish, palm-fitting hard plastic handle with tempered hard steel blade. Frame baluster reamer mounted on handle. Blade is 5" long and 1" wide. Handle is 3 1/4" long.
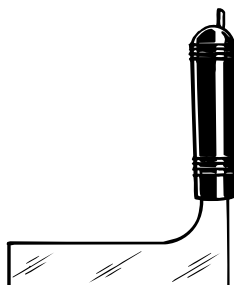
15-1129-4	Tite-Stretch Tool

TETKOMAT
Model 10-100

This mechanical tension gauge offers accuracy, durability and ease of use. This compact, direct-reading gauge is ideal for synthetic fabrics and stainless steel wire cloth.

44-4632-5	TETKOmat Tension Gauge

SEFAR Tensocheck 100 Tension Meter

SEFAR Tensocheck 100 is an electronic gauge for monitoring screen tension. Its outstanding advantages: Its excellent value for money and ease of use without requiring previous experience. SEFAR Tensocheck 100 is also available having a serial port for connection to SEFAR 51i. Your advantage: Fully automatic, precise tensioning at preselected values in N/cm (Existing devices not having an interface are not able to be converted).

44-4731-6	Tensocheck Tension Gauge

MURAKAMI TENSION METER MST 760

Measures tension within the screen mesh as it is being stretched. Accurately balance tension levels in mesh library. Achieving manufacturer s recommended tension levels across entire set improves registration, allows lower off contact, less wear on emulsion and mesh, and better print results.

MST-760	Murkami Tension Guage

Mesh and Halftone Determiner

On one sheet you get a mesh and halftone determiner (6XX-25XX), a mesh counter (100-240), and a mesh counter (200-480).
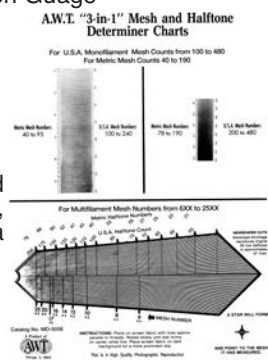
52-3525-1	All three on one sheet

Tite-Stretch Cord

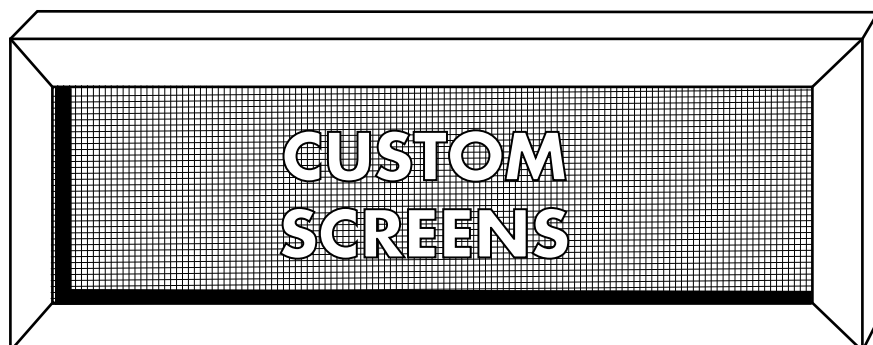Use Tite-Stretch cord for a perfect non-slip fit. Made from a hard-finish, uniform material. Available in two sizes.
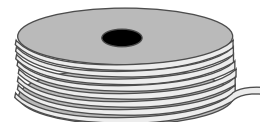
Size	Diameter	100 ft.	1000 ft.
Standard	5/32"1	15-1132-8	15-1137-7
Jumbo	3/16"	15-1133-6	15-1138-5

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SCREENS MADE TO YOUR SPECIFICATIONS IN OUR SHOP, USING EXPERT TECHNIQUES AND MATERIALS.

ARTWORK

We have been creating and touching up customer art for many years. Bring us your ideas, old printed copy, drawings, and we'll turn it into printable art.

INK JET FILM POSITIVES

Send us your digital file, and we will rip it and print it on clear, water-proof ink jet film that is ready to shoot.

FRAMES

Wood frames made to size in our shop with appropriate profile for screen size. Adequate ink well on all sides of image. Also available are , Sefar, and Quality aluminum frames (see pages 78-79 for available sizes).

STRETCHING / MESH

A wide selection of fabrics is available - polyester, nylon and stainless steel. For all available options please see pages 68-74. Frames up to 72"x144" can be stretched to manufacturer suggested tensions. We can also remesh your frames provided they are in good condition. Mesh is fixed to frame using the highest quality screen adhesive. Bias mesh stretching is available. Cap frames and most odd shaped frames can be stretched.

COAT AND SHOOT

Several Direct Emulsions and a variety of presensitized capillary stencil films are used, according to your specifications and needs. Frames up to 52"x96" O.D. can be shot in our exposure units.

BLOCKOUT / TAPE

Solvent/water resistant blockout and touch up is applied to screen along with Solvent/water resistant tape on the print side of the screen.

RECLAIMING

Reclaim your screens and save on the cost of new mesh and frames. We use state-of-the-art chemistry to remove both emulsion and ink residue, allowing the best image possible to be reshot onto the clean mesh.

- Custom screens made to the highest standards

- Basic artwork touchup and typesetting available. Electronic file transfer with digital output.

- Discounts available on 10 or more complete custom screens.

- Emulsion hardener available to prolong image life, especially for high humidity conditions.

- Complete screens ready to ship in two days unless otherwise informed when placing order.

- Free delivery and pickup within the Minneapolis/St. Paul area.

- Redwood lumber available for most frame sizes.

# SCREEN CLAMPING DEVICES

APSCO HEAVY-DUTY HINGE CLAMPS

The original APSCO hinge clamps have been used by screen printers for more than three decades and are still unsurpassed in quality. Faster to set up and easier to use, these clamps are lower in price than any other frame hinge clamp available. Heavy-duty plated steel construction ensures countless carefree impressions in perfect register. Insert any size screen frame from 1/2" to 1 5/8" thickness in less than a minute. Ideal for sample runs and for pre-production test printing. Includes built-in off-contact distance. Screws for affixing clamps to printing base included. One pair of clamps per package.
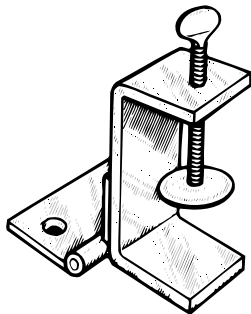
54-1110-3   APSCO hinge clamps

PERMACAST JIFFY HINGE CLAMPS

Select Permacast Jiffy hinge clamps when you need ruggedly-constructed clamps to hold up to three inch thick screen frames. These sturdy cast steel hinge clamps feature positive-locking action and guide flange. Loose-pin design facilitates convenient screen removal for fast changeover. One pair of clamps per package.
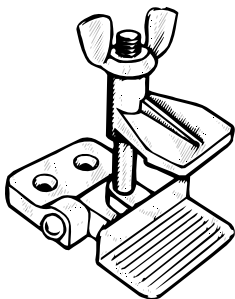
54-1111-1   Permacast Jiffy Hinge Clamps
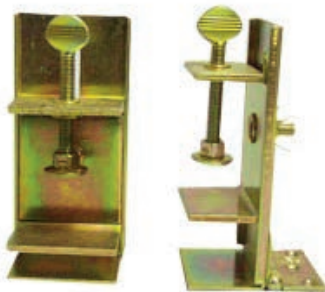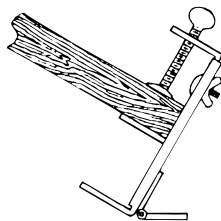
202 ADJUSTABLE HINGE CLAMPS

The finest 3" Adjustable hinge clamps. Can hold screens up to three inches thick. Ideal for when versatility is a must. One pair of clamps per package.

54-1202-2   202 Adjustable Hinge Clamps

HEAVY-DUTY SIDEKICKS

All steel spring kick legs for larger frames. Instantly clamp on and off frame; eliminate counter-lighting. Adjustable for up to 2" frames, and can be mounted on either the right or left side.

| 54-1108-7 | Frames up to 30x45" | 6" long (Reversible) |
| 54-1109-5 | Frames up to 48x80" | 9" long (Reversible) |

Big Gripper 2, Adjustable
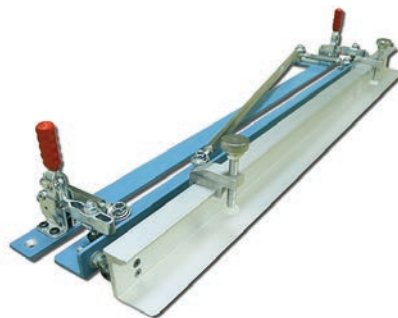
Screen Carriage

A.W.T.'s heavy-duty Big Gripper™ Screen Frame Clamping System is used with wood and metal frames of all shapes and sizes. The adjustable frame clamps tightly grip square and round frames to ensure rigidity. The Big Gripper2 uses a heavy-duty, single-piece aluminum frame holder to ensure the best support for all frames. Print repeatability and precise X/Y registration are assured.

The Big Gripper2 holds frames from a minimum of one inch high to a maximum of two inches. For thinner frames, inquire about the specially-made, custom-sized studs. The Big Gripper2 is used for single and multicolor jobs. Additional clamps are available for larger or heavier frames. There is also a packing or crating charge.

E-AWT-BG-M1218	Big Gripper for 12x18" Frame
E-AWT-BG-M1525	Big Gripper for 15x25" Frame
E-AWT-BG-M2430	Big Gripper for 24x30" Frame
E-AWT-BG-M2538	Big Gripper for 25x38" Frame
E-AWT-BG-M3545	Big Gripper for 35x45" Frame
E-AWT-BG-M3855	Big Gripper for 35x55" Frame
E-AWT-BG-M4464	Big Gripper for 44x64" Frame
E-AWT-BG-M5280	Big Gripper for 52x80" Frame
E-AWT-BG-M5296	Big Gripper for 52x96" Frame
E-AWT-BG-M60120	Big Gripper for 60x120" Frame
E-AWT-BG-M60150	Big Gripper for 60x150" Frame
E-AWT-BG-M72196	Big Gripper for 72x196" Frame

Paper Feed Guides
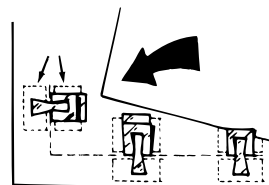
Tempered stainless steel spring clips secure paper from three sides during printing. Each clip measures 13/16"

54-1101-2   Paper Feed Guides

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FABRIC BRUSHES

FABRIC BRUSH
The iron shaped Fabric Brush scrubs deep for application of degreaser, emulsion remover, ink solvents, etc. The handle makes it easy to hang on to even with gloves and when slippery.

15-3505-4   Fabric Screen Brush

SCRUBBER
The Scrubber has a non-abrasive scrubbing pad attached to a handle. the ideal tool for the really tough cleaning problems. Available in two degrees of coarseness. A white fine grain coarseness and a red medium grain coarseness.

15-3506-7   Light Pad Scrubber (White)
15-3508-9   Hvy Duty Blue Pad Scrubber

FABRIC CLEANING BRUSH

Apply cleaning solutions with this wooden handle stiff-bristled brush. For cleaning all types of screen fabric. Length 6" width 2-3/8"

15-3503-8   Fabric Cleaning Brush

CLOG REMOVING BRUSHES
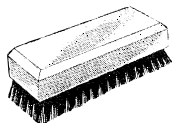
Use with Stainless Steel Mesh Prep to remove stubborn mesh clogs in all mesh and wire cloth. Overall size 1 x 3". In wooden handle with brass bristles, these can also be used with other mesh cleaners. Set of 2.

15-3504-6   Clog Removing Brushes

MESH PREP PRODUCTS

ULANO MAGIC MESH PREP
Use with capillary films. Combines the benefits of a degreaser, wetting agent, and antistatic treatment. A uniform sheeting of water on the surface of the mesh will yield uniform adhesion to films. Dry spots on the mesh will cause weak "blistered" spots.

UL-MMP-Q   Magic Mesh Prep   Qt.
UL-MMP-G   Magic Mesh Prep   Gal.

MESH PREP PRODUCTS

NO. 2 ULANO MICROGRIT MESH PREP
Fine (18-20 microns) roughening powder abrades fabrics. Powder is sprinkled on to wet polyester or nylon fabric, then rubbed in with a rag to slightly roughen the surface. This aids the adhesion of films and emulsions. Easily removed with low pressure water.

UL-002-08   Microgrit 1/2 pound
UL-002-3   Microgrit 3 pounds

NO. 3 ULANO SCREEN DEGREASER LIQUID
Ready-to-use foam-action degreaser. A heavy syrup type liquid that is brushed into stretched fabric. Rinses with water.

70-6977-6   No. 3 Liquid 1 Qt.
70-6978-4   No. 3 Liquid 1 Gal.

SCREEN SYSTEMS DEGREASER 5505 SERIES
A unique light bodied detergent that can be applied with a spray bottle. Will suds lightly when brushed, and easily washes off with a light spray of water. Use with all emulsions and films. Degreaser removes oil residues which interfere with adhesion to the mesh. Areas which are contaminated, even by skin oils from fingerprints, will break down prematurely if not degreased.

SYS-5505-32   Qt. Screen Systems Degreaser
SYS-5505-36   Gal. Screen Systems Degreaser

ULANO #23
ABRADER/DEGREASER
Use with indirect and capillary films. Mesh Abrader/Degreaser Gel will cut the screen mesh to give it "tooth" to improve adhesion of films. Use only on new fabric. Better than dry powder abraders which are inhaleable.

UL-023-Q   Quart Mesh Degreaser
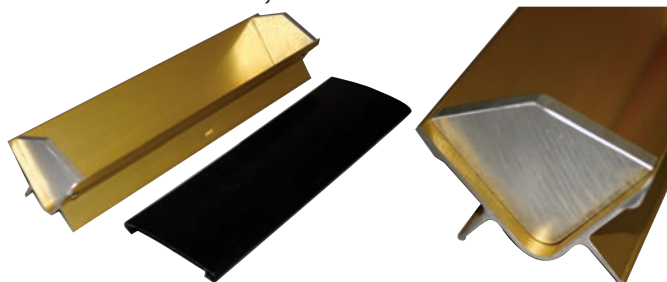UL-023-G   Gallon   Mesh Degreaser
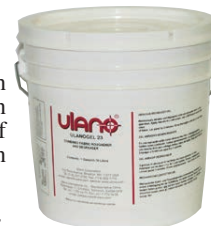
ULANO #25 CDF MESH PREP
Use with capillary films. A uniform sheeting of water on the surface of the mesh will yield uniform adhesion to films. Dry spots on the mesh will cause weak "blistered" spots.

UL-025-Q   Quart Wetting Agent
UL-025-G   Gallon Wetting Agent

SCOOP COATERS

ALL-ALUMINUM, DIRECT METHOD SCOOP

Two sided coater with a thin coating edge on one side, and a rounded edge on the other for heavier deposits of emulsion. Aluminum ends are screwed in place for durability. The only coater that sits straight up for easy filling without spills. All sizes listed indicate actual coater dimension. *All scoop coaters have effective coating area of 1" less than size ordered*. Scoop Coaters are available in customized sizes up to 144".

Cat. No. Width

Cat. No.	Width	Cat. No.	Width	Cat. No.	Width
SC2-02	2"	SC2-15	15"	SC2-36	36"
SC2-03	3"	SC2-16	16"	SC2-38	38"
SC2-04	4"	SC2-17	17"	SC2-40	40"
SC2-05	5"	SC2-18	18"	SC2-42	42"
SC2-06	6"	SC2-19	19"	SC2-44	44"
SC2-07	7"	SC2-20	20"	SC2-46	46"
SC2-08	8"	SC2-22	22"	SC2-48	48"
SC2-09	9"	SC2-24	24"	SC2-50	50"
SC2-10	10"	SC2-26	26"	SC2-52	52"
SC2-11	11"	SC2-28	28"	SC2-54	54"
SC2-12	12"	SC2-30	30"	SC2-56	56"
SC2-13	13"	SC2-32	32"	SC2-58	58"
SC2-14	14"	SC2-34	34"	SC2-60	60"

PRO M SCOOP COATER

One piece alloy construction with large emulsion reservoir. Features one edge with a round shape for thick deposits and the opposite with a sharp edge for controlled, thin emulsion deposition. Can also be custom made to specific lengths as required. Effective coating width is 1/4" less than overall length.

| Cat. No.	Length	Cat. No.	Length
Pro-M-02	2"	Pro-M-34	34"
Pro-M-04	4"	Pro-M-36	36"
Pro-M-06	6"	Pro-M-38	38"
Pro-M-08	8"	Pro-M-40	40"
Pro-M-10	10"	Pro-M-42	42"
Pro-M-12	12"	Pro-M-44	44"
Pro-M-14	14"	Pro-M-46	46"
Pro-M-16	16"	Pro-M-48	48"
Pro-M-18	18"	Pro-M-51	51"
Pro-M-20	20"	Pro-M-53	53"
Pro-M-22	22"	Pro-M-57	57"
Pro-M-24	24"	Pro-M-60	60"
Pro-M-26	26"	Pro-M-63	63"
Pro-M-28	28"	Pro-M-68	68"
Pro-M-30	30"	Pro-M-77	77"
Pro-M-32	32"	Pro-M-84	84"
"		Pro-M-96	96"

MAGNIFIERS

Professional Linen Tester

Powerful magnifiers used for counting threads, etching, engraving, checking halftone dots, etc. Soft black finish eliminates glare. Graduated markings provide reference. Folds away for carrying in a neat pouch.
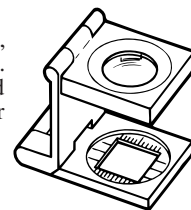
GR-0061	7X Power	1/2" x 1/2" Field
GR-0062	5X Power	1" x 1" Field

#63 Double Magnifier

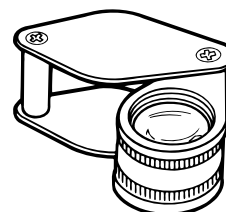8X on one end and 15X on the other. This magnifier is chrome plated and comes in its own vinyl case.
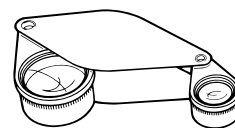
GR-0063   #63 Double Magnifier

#64 Coated Lens Magnifier

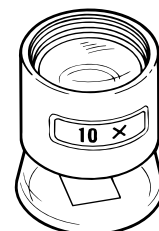A 20X magnifier that is gold plated , with a vinyl carrying case.

GR-0064   #64 Coated Lens Magnifier

#65 Fine Scale Magnifier

This traditional 10X Loupe is high quality yet inexpensive

GR-0065   #65 Fine Scale Magnifier

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EMULSIONS

Photocure SR
Color: Magenta 37% Solids

Photocure SR is PVA-SBQ presensitized pure photopolymer direct emulsion for UV, commercial graphics and textile (plastisol) inks. Photocure SR exhibits superior resolution and definition with wide exposure latitude for one color to 4 color process printing. Excellent solvent resistance and easy reclaiming. Extremely durable and resistant to pinholing and breakdown.

MS-SR-G	Photocure SR	Gal.
MS-SR-Q	Photocure SR	Qt.

Ulano QFX
Color: Magenta   38% Solids

QFX is a ready-to-use, ultra-fast-exposing photopolymer direct emulsion formulated for industrial halftone and fine detail graphics printing with solvent inks. QFX has offers high solids content for stencils with exceptional edge definition. Recommended for fine detail and halftone printing. QFX resists most solvent-based inks. Stencils made with the emulsion are extremely durable, and yet can be reclaimed easily.

UL-QFX-G	QFX Emulsion	Gal.
UL-QFX-Q	QFX Emulsion	Qt.

A FULL RANGE OF PHOTO SCREEN EMULSIONS TO SATISFY EVERY SCREEN MAKER

Northwest Graphic offers a complete range of emulsions for any purpose. From the ultimate SBQ photopolymer for graphic or textile applications to ultra tough dual cure emulsions and economic diazo sensitized emulsions. There are water resistant and solvent resistant emulsions. Abrasion resistant emulsions and some with wide exposure latitudes.

PHOTOPOLYMER EMULSIONS

Photopolymer emulsions are ready for use out of the container. They are fully mixed and presensitized with SBQ photopolymer sensitizer. Exposure times are 5 times faster than diazo and at least twice as fast as dual cure emulsions with excellent resolution and definition. Open containers must be handled under yellow safe lights before exposure.

GRAPHIC PHOTOPOLYMERS

One Pot Sol C
Color: Green   37% Solids

One Pot Sol C Murakami Screen's patented Premium SBQ sensitized direct emulsion developed for critical close tolerance applications. Designed for reproducing very fine detail and halftones and is resistant to solvents. Exposure is extremely fast - 3 to 5 times faster than diazo type emulsions. Exhibits exceptional resolution and definition qualities due to the unique sensitizer, making this emulsion capable of reproducing the finest artwork. Due to balanced solids content, fewer coats are required for optimal build-up. Recommended for all inks except water soluble. It is extremely important to clean and degrease the screen mesh prior to application of emulsion

MS-SOLC-G	One Pot Sol C Emulsion	Gal.
MS-SOLC-Q	One Pot Sol C Emulsion	Qt.

SAATI PS1
Color: Red   34% Solids

PS1 is a pure Photopolymer Red emulsion that is their most economical Photopolymer. Ultra fast exposure for solvent, plastisol, and UV inks.

SAA-PS1-G	Saati PS1	Gal
SAA-PS1-Q	Saati PS1	Qt.

TEXTILE PHOTOPOLYMERS

Murakami T9
Color: Pink   44% Solids

Murakami T9 is a new emulsion that can print all textile systems without the need for hardeners. This high viscosity, high solids emulsion reclaims easily to preserve fine meshes. Water and solvent resistant.. Reclaiming is very easy with normal chemistry
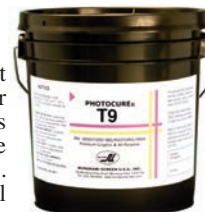
MS-T9-G	T9	Gal.
MS-T9-Q	T9	Qt.
MS-T9P-G	T9 Purple	Gal.

Photocure BLU
Color: Blue   41% Solids

Photocure BLU is a PVA-SBQ presensitized pure photopolymer direct emulsion for textile printers using plastisol inks. Extremely durable and easily reclaimable. By Murakami

MS-BLU-G	Photocure BLU	Gal.
MS-BLU-Q	Photocure BLU	Qt.

SAATI PV
Color: Red   42% Solids

Saati PV is their premium, durable, fast Photopolymer emulsion. This medium viscosity emulsion contains 42% solids, and can be used with plastisol and water based inks .

SAA-PV-G	Saati PV	Gal.
SAA-PV-Q	Saati PV	Qt

TEXTILE PHOTOPOLYMERS

Ulano PLATINUM
Color: Gray   41-42% Solids

Ulano Platinum is a ready-to-use SBQ-photopolymer direct emulsion formulated for imprinted sportswear printing and other markets. It resists plastisol inks, including newer, more aggressive, post-phthalate plastisols, and most washup solvents, making it easy to reclaim in automatic equipment or by hand. It is formulated with a gray color that reduces light scattering throughout all spectral range, the major cause of loss of resolution. Such gray coloration is innovative way for Ulano to further expand the spectrum of possible stencil colorations, where not only it benefits emulsion cosmetically, but also functionally. Such coloration combines good contrast with easy see-through. It is well suited for the certain computer to screen systems, as even with the short pixilated exposures, the stencil, due to innovative gray coloration exposes through well throughout the thickness of the stencils, forming dense crosslinking on the squeegee side of the screen. Such coloration combines good contrast with fairly easy see-through.

UL-PLT-G	Platinum Emulsion	Gal.
UL-PLT-Q	Platinum Emulsion	Qt.

Ulano ORANGE
Color: ORANGE   44-46% Solids

Orange is a ready-to-use SBQ-photopolymer direct emulsion formulated for imprinted sportswear printing. It is formulated with a "masking color" that reduces light scattering, the major cause of loss of resolution. With Orange, it is possible to use less costly white mesh without the closing up of fine lines and details. Despite its anti-halation color, Orange is ultra-fast-exposing! It is perfect for shops with high stencil making throughput, as well as shops with low-intensity light sources.

Orange has high viscosity (6,000-8,000 centipoise) that improves control when coating screens and makes it a good choice for coarse mesh. Its high solids content (44 - 46%) results in better mesh bridging and edge definition, and fast drying. Orange resists plastisols, most washup solvents, and some water-based textile inks, and it is easy to reclaim.

UL-OR-5G	Orange Emulsion	5 Gal.
UL-OR-G	Orange Emulsion	Gal.
UL-OR-Q	Orange Emulsion	Qt.

Ulano QTX
Color: Red   46% Solids

QTX is a ready-to-use, ultra-fast-exposing photopolymer direct emulsion formulated for imprinted sportswear printing. QTX's high solids content (46%) provides superior coating properties, better bridging of course mesh, and fast drying. QTX resists plastisol and water-based textile inks, is extremely durable and reclaims easily. Do not subject to strong solvents during printing or washup.

UL-QTX-G	QTX Emulsion	Gal.
UL-QTX-Q	QTX Emulsion	Qt.

Murakami Aquasol HV
Color: Pink   46% Solids

Aquasol HV is an outstanding resolution, PVA-SBQ pure photopolymer, blue emulsion for plastisol or water based textile printing. (when hardened with Murakami hardener and diazo sensitizer). Coats and builds up easily because of a high (46%) solids content. Exhibits excellent durability, resolution and definition with a wide exposure latitude, with 3-5 times faster exposure times than diazo sensitized emulsions.

MS-HVP-G	Murakami Aquasol HV Pink	Gal.
MS-HVP-Q	Murakami Aquasol HV Pink	Qt.

Ulano QLT
Color: Blue   43% Solids

QLT is highly resistant to most washup solvents and solvent-based inks, making it very easy to reclaim, either in automatic stencil removal equipment or by hand. Stencils made with QLT are extremely wear resistant and will not become tacky under high humidity conditions. Its high viscosity (~ 8200 CPS) provides good coating control. Its high contrast blue color affords easy stencil inspection.

UL-QLT-G	QLT Emulsion	Gal.
UL-QLT-Q	QLT Emulsion	Qt

DUAL-CURE EMULSIONS

Dual cure emulsions have a premixed photopolymer sensitizer and a separate diazo sensitizer. They provide faster exposures than diazo only sensitized emulsions with resistance to all inks.

GRAPHIC DUAL CURE

Ulano QX-1 Hybrid
Color: Blue   37% Solids

QX-1 is a one pot (no mixing) SBQ sensitized dual cure hybrid that combines the convenience, exposure speed, and shelf life of pure photopolymer emulsions with the durability, versatility, and imaging properties of dual-cure emulsions. QX-1 features wide exposure latitude, very easy decoating, and superb printing performance under high and low humidity conditions. This blue-green emulsion is fast drying and is unaffected by hot solvents.

UL-QX1-G	QX-1 Emulsion	Gal.
UL-QX1-Q	QX-1 Emulsion	Qt.

Ulano QX-3 Hybrid
Color: Blue   37% Solids

QX-3 is a second generation of QX1. This hybrid exhibits all the qualities if QX1 plus is more resistant to UV inks, solvents, and water. Washes out easily with no color leaching.

UL-QX3-G	QX-3 Emulsion	Gal.
UL-QX3-Q	QX-3 Emulsion	Qt.

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Ulano DLX - Dual Sensitized
Color: Blue   38% Solids

DLX is a high quality dual-cure are a reasonable price. DLX features superior resistance to humidity, rapid drying without residual surface oiliness, and reduced acrylate odor often associated with dual-cure emulsions. DLX is blue in color and has a matte finnish with no tack which allows for easy positioning of film and for easy removal of tape with negligible emulsion lift off.

| UL-DLX-G | DLX Dual-cure | Gal. |
| UL-DLX-Q | DLX Dual-cure | Qt. |

SAATI HU42
Color: Blue   42% Solids

Saati's most versatile emulsion uses controled particle size with 42% solids for excellent print definition. This Dual-Cure emulsion dries tack free. this makes positioning of film a snap and helps eliminate squeegee drag and chatter marks. Can be used with solvent, water based, UV, and plastisol inks.,

| SAA-HU42-G | Saati HU42 | Gal. |
| SAA-HU42-Q | Saati HU42 | Qt. |

Murakami PRO
Color: Blue   44% Solids

Murakami Pro is an outstanding resolution,dual cure, blue emulsion for use with solvent, UV, and other types of commercial inks. Ideal for use with aggressive solvents.

| MS-PRO-G | Murakami PRO | Gal. |
| MS-PRO-Q | Murakami PRO | Qt. |

Ulano RLX Multi-Purpose
Color: Magenta   38% Solids

RLX is a multi-purpose high speed diazo photopolymer direct emulsion. RLX's very high solids content provides better stencil build per coat, excellent bridging of coarse mesh, and faster drying. RLX has superb coating properties and durability, and is resistant to a wide variety of solvent- and water-based ink systems. RLX is recommended for imprinted sportswear, P-O-P, and advertising specialty printing.

| UL-RLX-G | Ulano RLX Emulsion | Gal. |
| UL-RLX-Q | Ulano RLX Emulsion | Qt. |

Murakami SP-9500
Color: Blue   36% Solids

SP-9500 is a high resolution, dual cure, emulsion for plastisol or water based textile or solvent based printing systems. Suitable for water based ink systems after hardened with Murakami hardeners. Coats and builds up easily because of a high solids content, and virtually pin hole and fish eye free. . Is not effected by hot solvents.

| MS-SP-9500-G | Murakami SP-9500 | Gal. |
| MS-SP-9500-Q | Murakami SP-9500 | Qt |

Ulano Proclaim
Color: Blue   37% Solids

New Proclaim provides unequalled exposure latitude and ease of decoating, even if underexposed and used with aggressive solvents. This provides fast stencil build up and excellent mesh bridging. highly resistant to solvents and UV inks. Ideal for graphic, textile and industrial applications. Available in blue and clear.

UL-PRO-5G	Proclaim	5Gal.
UL-PRO-G	Proclaim	Gal.
UL-PRO-Q	Proclaim	Qt.
UL-PROCL-5G	Proclaim Clear	5Gal.
UL-PROCL-G	Proclaim Clear	Gal.

Ulano Proclaim EC
Color: Blue   37% Solids

Proclaim EC using RD Sensitizing Technology is a diazo-free, ready-to-use dual-cure emulsion. It does not require the mixing of a diazo powder with water, the stirring of diazo solution into the emulsion, or any waiting time for de-bubbling. Proclaim EC is formulated to provide unequalled exposure latitude and ease of decoating, even if underexposed and used with aggressive inks and solvents. Proclaim EC is fast exposing, and provides good acutance. Its high solids content (37% unsensitized) provides good stencil build per coat, excellent mesh bridging, and fast drying. Proclaim EC has superb coating properties and durability, and is resistant to all solvent-based inks, as well as water-based UV-cured inks. Proclaim EC is ideal for general graphics, textile, and industrial applications.

| UL-PROEC-G | Proclaim | Gal. |
| UL-PROEC-Q | Proclaim | Qt. |

SAATI HU
Color: Blue   39% Solids

Saati's most versatile emulsion uses controled particle size with 39% solids, for excellent print definition. This Dual-Cure emulsion dries tack free. this makes positioning of film a snap and helps eliminate squeegee drag and chatter marks. Can be used with solvent, water based, UV, and plastisol inks. Dries tack free, has 39% solids.

| SAA-HU-G | Saati HU | Gal. |
| SAA-HU-Q | Saati HU | Qt. |

Ulano LX-680 Hi-Resolution
Color: Blue   38% Solids

LX-680 is very suitable for high quality graphics and industrial printing and for all general purpose, graphic and industrial applications. Latitude, resolution and edge definition are excellent, which makes it ideal for fine line and half tone printing. The solids content 38%, provides superior print quality, and very fast drying. Supplied with a diazo sensitizer in powder form.

| UL-LX680-G | Ulano LX-680 Emulsion | Gal. |
| UL-LX680-Q | Ulano LX-680 Emulsion | Qt. |

TEXTILE DUAL-CURE

Ulano LX-660 Water Resistance
Color: Red   39% Solids
An Extremely durable, red, dual cure emulsion with superior wet strength and water resistance. Great edge definition and resolution with excellent solvent resistance and exposure latitude.

UL-LX660-G	LX-660 Emulsion	Gal.
UL-LX660-Q	LX-660 Emulsion	Qt.

Murakami SP-7500
Color: Pink   41% Solids
SP-7500 is a high resolution, dual cure, emulsion for plastisol or water based textile printing. Coats and builds up easily because of a high solids content. Is not effected by hot solvents.

MS-SP-7500-G	Murakami SP-7500	Gal.

DIAZO EMULSIONS

MS-SP-7500-Q	Murakami SP-7500	Qt

Diazo emulsions offer economy, ease of use, and a wide exposure window. Ideal for use with weaker light sources.

GRAPHIC DIAZO

Ulano Fotocoat 569
Color: Purple or Clear 39% Solids
Combines high-resolution and good solvent-resistance (except water). Emulsion 569 has a long shelf life. Has high solids for excellent edge definition. Economical, easy to use. Diazo sensitized No. 569 is purple for easier see-through registration 569CL is clear with separate dye

UL-569-G	569 (purple)	Gal.
UL-569CL-G	569CL (clear w/dye)	Gal.

Murakami SP-3000
Color: Lt Green   24.5% Solids
SP-3000 is an economical graphics emulsion with excellent definition and durability. It can be used for both graphics and apparel printing with solvent or plastisol inks. For use with UV and hot solvent based ink systems. Virtually pin hole and fish eye free, and extremely durable on press. Good solvent resistance for: Toluene, Acetone, Ethyl Acetate, Butylcellosolve, Butylacetate, Cyclohexane, Methyl Cellosolve, Isophoron, Ethylene Glycol Dimethyl Ether, Methyl Ethlyl Ketone (MEK), Butyl Carbitol and Butyl Carbitol Acetate. Outstanding resolution and definition properties, reclaims easily.

MS-SP3000-G	SP-3000	Gal.
MS-SP3000-Q	SP-3000	Qt.

GRAPHIC DIAZO

Ulano Fotocoat FX88 & FX88-SR
Color: Blue   37% Solids
Fast exposing emulsion for high volume production needs or weaker light sources. Outstanding printing quality and good solvent resistance. FX88-SR has extraordinary solvent resistance coupled with the exposure speed and printing quality of FX88. Dye supplied separately with FX88-SR
.

UL-FX88-G	FX88 Emulsion	Gal.
UL-FX88-Q	FX88 Emulsion	28 oz.
UL-FX88SR-G	FX88-SR Emulsion	Gal.

TEXTILE DIAZO

Murakami SP-1400
Color: Blue   42% Solids
SP-1400 is a cost effective, diazo sensitized, blue emulsion for plastisol or water based textile printing. Coats and builds up easily because of a high (40-43%) solids content. Exhibits excellent durability, resolution and definition with a wide exposure latitude. not effected by hot solvents.

MS-SP-1400-5G	Murakami SP-1400	5 Gal
MS-SP-1400-G	Murakami SP-1400	Gal.
MS-SP-1400-Q	Murakami SP-1400	Qt.

Ulano TZ
Color: Lt Blue   33% Solids
Ulano's special water-resistant emulsion. Made to be used with water-based inks and water dyes and plastisols. Excellent mechanical resistance and resolution. Easy to reclaim, diazo sensitized. Available clear and dyed.

UL-TZ-Q	TZ (blue)	28 oz.
UL-TZ-G	TZ (blue)	Gal.
UL-TZCL-G	TZ/CL (white w/dye)	Gal.

Ulano QT DISCHARGE
Color: Pink   41% Solids
Ulano's special water-resistant emulsion, made to be used with discharge ink, water-based inks and water dyes and plastisols. Excellent mechanical resistance and resolution. Easy to reclaim, diazo sensitized. A new replacement for 925WR that ships non-hazardous.

UL-QT-Q	QT Discharge	28 oz.
UL-QT-G	QT Discharge	Gal.

Ulano 925 WR
Color: Violet   41% Solids
Recommended for sportswear, T-shirt, and textile printing. Completely water resistant and very durable. Includes a syrup-based diazo sensitizer. Available in a clear version with separate dye. Ships hazardous.

UL-925-G	925 WR Plastisol Emulsion	Gal.
UL-925-Q	925 WR Plastisol Emulsion	Qt.
UL-925CL-G	925 WR Clear Emulsion	Gal.

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Murakami Diazo Sensitizer

A powder sensitizer with long shelf life and excellent value. A separate Diazo Sensitizer that can be mixed with Murakami photopolymer emulsions to increase water resistance

MS-4882   (sensitizes l qt. of emulsion)
MS-4888   (sensitizes l gal of emulsion

EMULSION HARDENERS

ULANO X

Use with direct emulsions, capillary films and direct/indirect films. Emulsion hardener can have a major impact on productivity by keeping presses running during periods of high temperature and humidity or when screens are breaking down prematurely for any reason. Easy to apply and the results are dramatic.\

UL-X-Q   Emulsion Hardener   Qt.
UL-X-G   Emulsion Hardener   Gal.

MURAKAMI A/B HARDENER

Emulsion hardener can have a major impact on productivity by keeping presses running during periods of high temperature and humidity or when screens are breaking down prematurely for any reason. Use part A only for a reclaimable screen. Combining parts A & B will result in a permanent screen. In the two part system, the A & B components are mixed in equal (1:1) proportions prior to use. The combination product is applied with a sponge to both sides of the exposed and washed out, and dry mesh. Blow out residue after five minutes and allow screen to dry for 30 minutes. Rinse with water before blocking out.

MS-A   A Emulsion hardener   Pint
MS-B   B Emulsion hardener   Pint

MURAKAMI MS HARDENER

Emulsion MS hardener is a one part hardener that is applied to both sides of the screen after is has been exposed, developed, blocked out and dried. Improves stencil water resistance for improved performance with water based inks, and discharge printing, yet allows stencil to be reclaimed..

MS-H-G   MS Hardener
Gal.
MS-H-5G   MS Hardener   5 Gal.

ULANO HARDENER WR

Designed as a companion product to QLT emulsion (with diazo added), WR improves water resistance, durability and compatibility with discharge inks. Can be used with any diazo sensitized emulsion. Unlike other hardeners that render stencils permanent, stencils treated with Hardener WR can be easily removed.

UL-WR-G   Hardener WR   Gal
UL-WR-Q   Hardener WR   Qt

ULANO PRE-SENSITIZED FILM

Super Prep Film

Super Prep is a green emulsion that is the same as HI-FI Green except it is on a .002 polyester backing sheet. Use developer listed below.

UL-PREP-44300   44 x 300"

Poly 2 Blue

Poly 2 Blue pre-sensitized film on a .002 polyester backing sheet. Simply expose to a film positive, develop, wash out, and adhere. A more sensitive film for fine detail and razor sharp prints. Use developer listed below.

UL-POLY2-40300   40 x 300"
UL-POLY2-44300   44 x 300"

Poly 3 Blue

Poly 3 Blue pre-sensitized film on a .003 polyester backing sheet. Simply expose to a film positive, develop, wash-out, and adhere. A more very sensitive film for detail and sharp prints. Use developer listed below.

UL-POLY3-40300   40 x 300"

A & B Developer

Ulano developer for pre-sensitized films shown here. Easy to use in pre-measured packets, in sets of A & B chemicals. Available in pint and quart sizes.

UL-AB-P   Pint of Hi-Fi Developer
UL-AB-Q   Quart of Hi-Fi Developer

INDIRECT FILM REMOVER

Ulano #1 Special Enzyme

A safe, effective enzymatic specially formulated for faster action and better results in removing indirect photo stencils from all types of fabric. Odorless.

UL-001   Ulano #1 Special Enzyme (1 lb)

EXPOSURE GUIDE

KIWO EXPOSURE GUIDE

The Ulano exposure guide is a professional tool for calculating the correct exposure for your emulsion. Gives the effect of five exposures in one because of the of the filter with five different densities in five distinct zones.

KEC   Ulano Exposure Calculator

CAPILLARY FILMS

ACHIEVE TOP-QUALITY RESULTS ON VARIED APPLICATIONS

Capillary films are high quality direct emulsions precisely coated on polyester film. The provide high definition stencils because the have uniform thickness and don't have the tendency to shrink around thread knuckles. Ink deposits can also be tightly controlled for the same reason. Screens are also prepared more quickly because screen making steps are reduced.

PHOTOPOLYMER CAPILLARY FILMS

Murakami MS

Murakami photopolymer PVA-SBQ stencil systems provide for superior imaging and durability. 100% phthalate free and environmentally safe films with a shelf life of 3+ years. Specially designed for close tolerance work and thick film applications. Use MS Graphic film for stronger solvents and MS film for textile and mild solvents.

Murakami MS-10 Film
10 micron film for mesh counts of 390 & higher, half-tones, UV inks, and PC boards.

MS-10-251968	25" x 1968"

Murakami MS-15 Film
15 micron film for mesh counts of 350 & higher, half-tones, UV inks, and PC boards.

MS-15-25394	25" x 394"
MS-15-39394	39" x 394"

Murakami MS-20 Film
20 micron film for mesh counts of 250-355.

MS-20-25394	25" x 394"
MS-20-39394	39" x 394"

Murakami MS-25 Film
25 micron film for mesh counts of 200-355.

MS-25-25394	25" x 394"
MS-25-39394	39" x 394"

Murakami MS-30 Film
30 micron film for mesh counts of 150-350.

MS-30-25394	25" x 394"
MS-30-39394	39" x 394"

Murakami MS-35 Film
35 micron film for mesh counts of 150-350.

MS-35-25394	25" x 394"
MS-35-39394	39" x 394"

Murakami MS-40 Film
40 micron film for mesh counts of 110-270.

MS-40-25394	25" x 394"
MS-40-39394	39" x 394"

Murakami MS-50 Film
50 micron film for mesh of 200-355.

MS-50-25394	25" x 394"
MS-50-39394	39" x 394"

Murakami MS-80 Film
80 micron film for coarse mesh counts.

MS-80-39394	39" x 394"

Murakami MS-100 Film
100 micron film for coarse mesh counts.

MS-100-39197	39" x 197"

MURAKAMI THICK FILMS

Murakami invented thick film and others are still trying to catch up. Thick films allow very heavy ink deposits adhesives, masks, and recently high density plastisol. Available in 16 x 23" sheets, 5 per package. Use One Pot Sol-C to adhere to mesh.

MS-150-1623	150 Micron pkg of 5
MS-150-1623S	150 Micron single sheet
MS-200-1623	200 Micron pkg of 5
MS-200-1623S	200 Micron single sheet
MS-300-1623	300 Micron pkg of 5
MS-300-1623S	300 Micron single sheet
MS-400-1623	400 Micron pkg of 5
MS-400-1623S	400 Micron single sheet
MS-700-1623	700 Micron pkg of 5
MS-700-1623S	700 Micron single sheet
MS-1000-1623	1000 Micron pkg of 5
MS-1000-1623S	1000 Micron single sheet

Ulano LEXAR

CDF Lexar is a series of SBQ (pure photopolymer) capillary films for use with solvent-based inks. CDF Lexar is easy to reclaim and well suited to the printing of flat-stock graphics, plastisols for textiles, POP displays, computer-to-screen (CTS), containers, printable adhesives, and advertising specialties. The red film is coated on a matte-surfaced polyester. This imparts a slight texture to the printing surface of the stencil, thus minimizing hydrostatic attraction to the printing stock under conditions of high humidity, and electrostatic attraction under low humidity conditions.

LEXAR-30 Film
30 micron film for mesh counts of 150-350 mesh

UL-LEX30-25394	25 x 394"
UL-LEX30-42394	42 x 394"
UL-LEX30-52394	52 x 394"

LEXAR-40 Film
40 micron film for mesh counts of 110-270 mesh

UL-LEX40-25394	25 x 394"
UL-LEX40-42394	42 x 394"
UL-LEX40-52394	52 x 394"

612-729-7361 ---- Phone
612-729-6647 ---- Fax
nwgraphic.com
800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
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LEXAR-50 Film
50 micron film for mesh coarse counts of 110-270 mesh

UL-LEX50-25394	25 x 394"
UL-LEX50-42394	42 x 394"
UL-LEX50-52394	52 x 394"

ULANO THICK FILMS

Ulano thick films allow very heavy ink deposits adhesives, masks, and recently high density plastisol. Available in 8 x 10" and 16 x 23" sheets, 10 per package. Use QTX emulsion or water to adhere to mesh.

UL-QT100-00810	100 Micron	8 x 10"
UL-QT100-01414	100 Micron	14 x 14"
UL-QT150-00810	150 Micron	8 x 10"
UL-QT150-01414	150 Micron	14 x 14"
UL-QT200-00810	200 Micron	8 x 10"
UL-QT200-01414	200 Micron	14 x 14"
UL-QT250-00810	250 Micron	8 x 10"
UL-QT250-01414	250 Micron	14 x 14"
UL-QT300-00810	300 Micron	8 x 10"
UL-QT300-01414	300 Micron	14 x 14"
UL-QT400-00810	400 Micron	8 x 10"
UL-QT400-01414	400 Micron	14 x 14"

Ulano EZ-FILM

A pure photopolymer film intended for standard textile printing using non-aqueous garment inks. Priced as an alternative to direct emulsion, it also offers savings in labor and production time. Exceptionally easy to use while producing superb quality stencils.

Ulano EZ-30
An ideal Direct-Film for intermediate mesh counts (230-305 synthetics)

UL-EZ30-1517	15 x 17" shts	50 per box
UL-EZ30-1724	17 x 24" shts	50 per box

Ulano EZ-50 Orange
50 micron film for mesh coarse counts of 83-200 mesh

UL-EZ50-1517	15 x 17" shts	50 per box
UL-EZ50-1724	17 x 24" shts	50 per box

DUAL CURE CAPILLARY FILMS

Ulano VISION
CDF Vision is a diazo dual-cure capillary film system. Its special formulation controls mesh penetration and enhances photo-polymerization, resulting in sharp printing shoulders and mechanical durability. Particulate-size control reduces granularity effects for optimal resolution and definition. Texturing agents impart a micro-structural pattern to the bottom of the stencil, minimizing hydrostatic attraction to the printing stock under conditions of high humidity, and electrostatic attraction under low humidity conditions. CDF Vision is compatible with UVs, vinyls, and virtually all solvent-based inks. Depending on the thickness selected, it is suited to such printing applications as: electronics circuit traces and membrane switches, halftones, CDs and DVDs, ceramic decals, posters, and containers and bottles.

Ulano VISION-15
A15 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-VIS15-25394	25 x 394"
UL-VIS15-42394	42 x 394"
UL-VIS15-52394	52 x 394"

Ulano VISION-18
A18 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-VIS18-25394	25 x 394"
UL-VIS18-42394	42 x 394"
UL-VIS18-52394	52 x 394"

Ulano VISION-20
A 20 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-VIS20-25394	25 x 394"
UL-VIS20-42394	42 x 394"
UL-VIS20-52394	52 x 394"

Ulano VISION-25
A 25 micron film for fine line and halftone work. Recommended for use with mesh number 305 or finer or use with UV inks.

UL-VIS25-25394	25 x 394"
UL-VIS25-42394	42 x 394"
UL-VIS25-52394	52 x 394"

Ulano VISION-30
An ideal Direct-Film for intermediate mesh counts (230-305 synthetics). With stainless steel in the 325-400 range,

UL-VIS30-25394	25 x 394"
UL-VIS30-42394	42 x 394"
UL-VIS30-52394	52 x 394"

Ulano VISION-40
A 40 micron film for use with most solvent-based inks, or intermediate mesh counts 195-305 . Good resolution with excellent edge sharpness.

UL-VIS40-25394	25 x 394"
UL-VIS40-42394	42 x 394"
UL-VIS40-52394	52 x 394"

MASKING FILM

Ulano Rubylith

Rubylith is a red gel film coated on a stable base polyester backing sheet. Designs are cut into the gel, and areas are peeled out for drop-outs, masks, or overlays. Rubylith is light safe; this means that presensitized material under the red gel will not react or expose to light. The film also photographs black, making it helpful in overlays. Available in rolls, in combinations of several base material thicknesses, and fast all-purpose and easy peeling universal adhesive.

Rubylith RU3
Universal Adhesive
.003 Polyester Base

UL-RU3-40300	40 x 300"
UL-RU3-151800	15 x1800"
UL-RU3-241800	24 x1800"
UL-RU3-301800	30 x1800"
UL-RU3-361800	36 x1800"
UL-RU3-481800	48 x1800"

Rubylith RU5
Universal Adhesive
.005 Clear polyester base

UL-RU5-40300	40 x 300"

HAND-CUTTING FILMS

Hand cut films are used to create clean and sharp stencils. Northwest offers two basic types of hand-cut films: solvent-adhered films for resistance to water-based inks and water-soluble films for use with solvent-based inks. The structure of all hand-cut film consists of a coated film on a plastic support sheet. Support sheets are available in either of two thicknesses: .003 or .005. .005 films are recommended for beginners, because thicker film is easier to cut and mistakes are more easily repaired.

Ulano Plasti-cut Films
[SOLVENT-ADHERED]

Sta-sharp films are solvent-adhered for use with water-based inks and mild solvent based inks. The cutting surface of these films is very smooth for fast cutting and peeling time. They are dimensionally stable and durable for long lasting trouble-free screens. Extra-transparent films lie absolutely flat so they are easy to work with. They adhere fast and have excellent stick-back qualities for easy corrections.

S3S Sta Sharp (.003 Base)
UL-S3S-241800	24 x 1800"
UL-S3S-40300	41 x 300"
UL-S3S-48300	48 x 300"

Sta-Sharp Adhering Fluid

Recommended for adhering all regular lacquer-type films. Acts fast yet will not "burn" the finest cut lines if used as directed.

UL-ADH-G	Gallon
UL-ADH-Q	Quart

Ulanocut Green WATER-ADHERED

Resistant to most solvent-based inks, these films adhere with water to all fabrics. The emulsion layer is formulated to retain edge sharpness and to resist bleeding. A special adhesive layer provides easy peeling and removal of the backing sheet after drying. They are easy to cut and stick-back for corrections. The following are UlanoCut knife-cut water-soluble film on a .003 polyester base.

Green
UL-UCG-151800	15 x 1800"
UL-UCG-241800	24 x 1800"
UL-UCG-301800	30 x 1800"
UL-UCG-40300	40 x 300"
UL-UCG-44300	44 x 300"

WATER BLOCKOUTS

Screen Systems Blockout

All-purpose, water-based blockout. Use straight from the can or thin with water. Ideal for touching up and/or sealing screens made with solvent-resistant films or emulsions. Prevents screens from sagging, resists humidity, and does not become tacky in any weather. Provides a durable yet flexible blockout coating. Washes out with warm water. Available in quarts and gallons and 5 gallon containers.

SYS-5511-16	Red W/S Blockout	Pint
SYS-5511-Q	Red W/S Blockout	Qt.
SYS-5511-G	Red W/S Blockout	Gal.
SYS-5511-5G	Red W/S Blockout	5 Gal.

7600 Candoc W/S Blockout

A water soluble all purpose blockout for use with films or direct emulsion. Washes out with water and dries fast to a durable, flexible finish. Available in gallons only.

7600-G	Red Candoc W/S Blockout	Gal.

#65 Ulano Blockout

A non-flammable, water soluble blockout with drying characteristics similar to indirect films. Can be thinned with cold water, and used in unventilated rooms. Blue in color, water soluble.

UL-065-Q	Ulano #6 Blockout Qt.
UL-065-G	Ulano #6 Blockout Gal.

#10 Ulano Blockout

A heavy, non-flammable, water soluble blockout with drying characteristics similar to indirect films. The high viscosity generally assures effective covering in a single coat. Especially good for coarse mesh. Can be thinned with cold water, and used in unventilated rooms. Blue in color, water soluble.

UL-010-G	Ulano #10 Blockout Gal.

Saati Red Blockout

A water soluble all purpose blockout for use with films or direct emulsion. Washes out with water and dries fast to a durable, flexible finish. Available in gallons only.

SAA-S1-G	Red Saati W/S Blockout	Gal

Blockout Pen

Handy pen for touching pin holes in the screen department and on the press.

BO-PEN-G	Green Blockout Pen

612-729-7361 ---- Phone
612-729-6647 ---- Fax

nwgraphic.com

800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax

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LACQUER BLOCKOUT

Candoc Fast-Dry Lacquer Blockout

Pyroxylin-type blockout. Use straight from the can or thin with SYS-1925. Ideal for touching up and/or sealing screens made with waterproof films or emulsions. Check ink being used for compatibility. Available in gallons only. Available in blue and clear in gallons only.

9500-G	Candoc Blue Lacquer	Gal.
9500C-G	Candoc Clear Lacquer	Gal.

EMULSION REMOVER

Screen Systems Emulsion Remover

This is a liquid which is applied to screens to dissolve the emulsion. It can be sprayed or brushed onto a dry screen and allowed to set for 5 minutes. Then, a pressure washer should be used to remove any emulsion residue. Ideal for tank use without heat. Available in square, dispensing, 5 gal cubes.

6000 Series

Regular Strength for use right from the bottle.

SYS-6000-Q	Emulsion Remover	Qt.
SYS-6000-G	Emulsion Remover	Gal.
SYS-6000-5G	Emulsion Remover	5 Gal.
SYS-6000-5C	Emulsion Remover Cube	5 Gal.

6100 Series Concentrate

Concentrate - 1 part concentrate to 3 parts water.

SYS-6100-Q	Concentrated Remover	Qt.
SYS-6100-G	Concentrated Remover	Gal
SYS-6100-5G	Concentrated Remover	5 Gal.
SYS-6100-5C	Concentrated Rem Cube	5 Gal.

EMULSION REMOVER POWDER

These SMP crystals are the same as used to make the liquid removers above, except without the water. Two ounces of powder are used for each gallon. Available from a 2 ounce size (premeasured for one gallon) to 110 ounce for a 55 gallon drum. Ships as hazardous.

SYS-6002	2 oz	Makes one gallon
SYS-6016	16 oz.	Makes 8 gallons
SYS-6040	40 oz.	Makes 20 gallons
SYS-6080	80 oz.	Makes 40 gallons
SYS-6110	110 oz.	Makes 55 gallons

ULANO #4

A ready to use stencil remover liquid for fast and thorough removal of direct emulsions. Will not etch fabric and contains no strong alkalis or hypochlorites. Ideal for tank use.

UL-004-Q	Ulano #4 Remover	Qt.
UL-004-G	Ulano #4 Remover	Gal.

Screen Systems Premium Emulsion Remover

This is a liquid acid based concentrate must be reduced with water before use. Available in several strengths for your convenience. Reduced remover is applied to screens to dissolve the emulsion. It can be sprayed or brushed onto a dry screen and allowed to set for 5 minutes. Then, a pressure washer should be used to remove any emulsion residue. Ideal for tank use without heat. Recommended to be mixed 15:1 with water for machine use or 50:1 or more for hand use

6415 Series 15:1

Mix one gallon in fifteen gallons of water.

SYS-6415-Q	Concentrated Remover	Qt.
SYS-6415-G	Concentrated Remover	Gal

Stencil Remover Paste Ulano #5

A ready to use stencil remover paste for fast and thorough removal of direct emulsions. Will not etch fabric and contains no strong alkalis or hypochlorites. Ideal for tank use.

UL-005-Q	Ulano #5 Remover	Qt.
UL-005-G	Ulano #5 Remover	Gal.

HAZE REMOVER

5230 Haze Remover Gold

A very potent and works very fast, yet without the strong odor usually associated with haze removers., Extremely effective for removing even the most stubborn ghosts from printers' screens. Less harmful to mesh that corrosive haze removers.   For use with all films and emulsions. Does not ship as hazardous. By Screen Systems.

SYS-5230-Q	Haze Remover	Qt.
SYS-5230-G	Haze Remover	Gal.
SYS-5230-5G	Haze Remover	5 Gal.
SYS-5230-5C	Haze Remover	5 Cube

ULANO 78

Remove emulsion or ink residue easily with this paste screen reclaiming agent. Corrosive product that contains caustic soda and can etch fabric. Ships as hazardous.

UL-078-G	5 Kg #78 Haze Remover Paste
UL-078-Q	1 Kg #78 Haze Remover Paste

Walk Away Haze Remover

An ink stain and stencil residue haze remover with unrestricted dwell time. Can be coated and left to dry on the screens! Formulated to react as it dries on the screen, so that it can be applied and left to work for hours - even over night. Will not harm polyester, nylon, or stainless steel mesh, (Avoid metalized polyester.)

UL-WAHR-G	Walk Away Haze Remover	Gal
UL-WAHR-Q	Walk Away Haze Remover	Qt

PLASTIC LAYOUT BASE

Polyester

A Polyester is an extremely durable, and flexible plastic film. It is available in both crystal clear, and matte. It has several strong advantages over the other types of films. There is almost no change in dimension with polyester film. This means tight registration for overlays with no fear of misregistration later. The film never yellows, and is almost impossible to tear, making it a product that will store very well. .004" Thick.
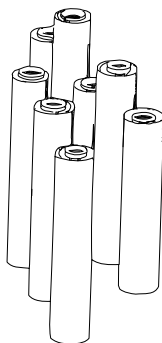
TR-4P-02025	20 x 25" Sheets
TR-4P-40012	40" x 12' Roll
TR-4P-40050	40" x 50' Roll
TR-4P-40100	40" x 100' Roll

Prepared Polyester

The specially treated surface of prepared polyester contains a thin coating of gelatin that will accept all wet media: ink, tempera, water color, opaque, acrylics, etc. In other ways it fits the description listed above for Polyester. Available in rolls, or sheets. .004" Thick

TR-AP-02025	20 x 25" Sheets
TR-AP-40012	40" x 12' Roll
TR-AP-40050	40" x 50' Roll

Acetate

Acetate is a plastic like material that is an ester or salt of acetic acid. All acetate is moisture proof. Caution should always be used with all acetate because it will yellow with age, tears easily, and is not dimensionally stable. Available in rolls or sheets.

Sheets	.003 in.	.005
20"x25"	TR-3C-02025	TR-5C-02025
25"x40"	TR-3C-02540	TR-5C-02540

Rolls	.003 in.	.005
20"x50'	TR-3C-20050	TR-5C-20050
20"x100'	TR-3C-20100	TR-5C-20100
40"x12'	TR-3C-40012	TR-5C-40012
40"x50'	TR-3C-40050	TR-5C-40050
40"x100'	TR-3C-40100	TR-5C-40100

OPAQUE MARKERS

Special formulation of inks that opaque photographic negatives. This is done by an intense red or black color that changes light to a safe color for photo work. Saves time over liquid opaques that must be brushed on.

MARTEX OPAQUE MARKER

Mark-Tex has developed a line of film opaquing pens that prove indispensable in film production and graphic arts. Created for use on film negatives and positives, these pens deal with problems of scratches, pin holes, cut marks and surface imperfections. These black ink markers are available in fine and bullet tip pens. Ink is activated by a piston pump system. Black ink only.

OP-1100	Fine Tip
OP-1102	Bullet Tip

SAFELIGHTS

Arm-A-Safe Gold Safelights

Slip the gold tubes over any standard fluorescent tube, and flood the screen room with safe, even gold light. Safe for all forms of screen films and emulsions, including printed circuit films and resists. Provides 50% more light than conventional gold lamps. Use 20W and 40W tubes. The easy way to light screen making rooms where sensitized emulsion films are affected by ultra violet light.

FG-99596	96" Brite-lite gold sleeve with end caps
FG-99548	48" Brite-lite gold sleeve with end caps
FG-99524	24" Brite-lite gold sleeve with end caps

Safelight Bulb

A 60 watt incandescent yellow safe light bulb. Ideal for a small coating/drying room.

70-1774-2	Yellow Incandescent Safe Light

PHOTO FLOOD BULB

Photo Flood Bulb

A #1 incandescent photo flood bulb. An inexpensive, but slow, exposure bulb

HU-4581	#1 Photo Flood Bulb

OPAQUE MARKERS

ZIG OPAQUE MARKER

Professional retouch pen with super dense ink for single application that opaques completely. Ink dries in seconds after application. Red ink only.

OP-005	Super Fine Tip
OP-088	Broad Tip
OP-100	Medium Tip
OP-220	Fine Tip
OP-330	Ultra Fine Tip

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COMPUTER FILM & VELLUM

INK JET FILM

ECONO-BLACK INK JET
Waterproof Ink Jet Film

Clear polyester ink jet film for high quality film positives. Good quality at an affordable price. Accepts ink in most ink jet printers including Epson 3000. For dye & pigment inks. In 100 sheet packages and rolls.

SHEETS

IJF-EB-0811	8-1/2 x 11"
IJF-EB-1117	11 x 17"
IJF-EB-1318	13 x 18"
IJF-EB-1319	13 x 19"
IJF-EB-1722	17 x 22"

ROLLS

IJF-EB-13100	13" x 100' Roll
IJF-EB-14100	14" x 100' Roll
IJF-EB-17100	17" x 100' Roll
IJF-EB-24100	24" x 100' Roll
IJF-EB-36100	36" x 100' Roll
IJF-EB-42100	42" x 100' Roll

LASER FILM

Laser Film

Premium 4 mil matte polyester film treated for toner receptivity. Dimensionally stable film that is ideal for multi color work where registration is required. Works with most laser printers, ideal for enhanced toner laser printers. 100 sheets per package.

LF-0811	8-1/2 x 11"
LF-0814	8-1/2 x 14"
LF-1117	11 x 17"
LF-1218	12 x 18"
LF-13185	13 x 18.5"

Clear Laser Film

New crystal clear polyester film for laser printers. Designed for the Xante Film Writers, this clear film works with a number of other printers. (Test before production run.) 100 sheets per pkg,

LFC-0811	8-1/2 x 11"
LFC-1117	11 x 17"
LFC-1218	12 x 18"

Casey's Laser Film

CASEYS' LASER FILM is a high-quality 4 mil, double matte polyester designed for laser printers and copiers. Screen printers use Laser Film when they need to tile large areas which require the physical strength of polyester. Pad Printers use Laser Film to create crisp clear images. This is an inexpensive alternative to using a camera.

CPM-LF-0811	8-1/2 x 11"	Pkg 100
CPM-LF-1117	11 x 17"	Pkg 100
CPM-LF-1318	13 x 18"	Pkg 100

LASER VELLUM

LV VELLUM

A high tech translucent laser paper for negative or positive images to use in exposing screens or printing plates without costly film. Specially coated for incredible toner adhesion. Dimensionally stable under heat and pressure of laser printing - can be used to create color separations. Consistent moisture content for easy handling and curl resistance.

100 Sheet Pkg	Size	500 Sheet Pkg
LV-10811	8-1/2 x 11"	LV-50811
LV-10814	8-1/2 x 14"	LV-50814
LV-11117	11x17"	LV-51117
LV-11318	12.9 x 18"	LV-51318

Casey's Translucency
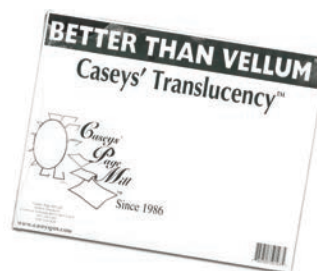
CASEYS' TRANSLUCENCY is a high-quality vellum like paper designed for laser printers and copiers. Screen Printers use this laser printer output as a positive for burning screens.This is an inexpensive alternative to using a camera and film. Why? Because Caseys' Translucency is less expensive than film and saves the cost of a camera. Caseys' is also more durable and more stable than other vellums, meaning it won't shrink and wreck your separations.

CPM-LV-0811	8-1/2 x 11"	Pkg. 250
CPM-LV-0814	8-1/2 x 14"	Pkg. 250
CPM-LV-1117-1	11 x 17"	Pkg. 100

AFFORD-A-BLACK

Afford-A-Black is the only ink designed for film positive output on ink jet printers. This is a dye ink formulated for clear ink jet film that is scratch resistant and quick drying, with excellent UV blocking characteristics. There are cartridges for the popular Epson printers as well as bulk systems for the R1800, R2400, 2200, and 1520. Note: all cartridges contain black ink. Where a color is named, it indicates the slot the cartridge is designed to replace. All fast inks are designed for use with Accurip and other raster image processors.

FASTINK DYE BULK INKS

USBLKLTR	Liter	Refill Bottle

EPSON R1400/1430 FASTINK

US1400MTBLKD18U	18ml	Cartridge

EPSON R1800 FASTINK

US1800BLKD18U	18ml	Cartridge

EPSON T3270 FASTINK

			Slot
US3270MBLKD700	700ml	Cartridge	Matte Black
US3270PBLKD700	700ml	Cartridge	Photo Black

EPSON 4800 FASTINK

			Slot
US48LBLKD110U	110ml	Cartridge	Lt Black
US48LBLKD220U	220ml	Cartridge	Lt Black
US48LLBLKD110U	110ml	Cartridge	Lt Lt Black
US48LLBLKD220U	220ml	Cartridge	Lt Lt Black
US48LMGD110U	110ml	Cartridge	Lt Magenta
US48LMGD220U	220ml	Cartridge	Lt Magenta
US48LCYD110U	110ml	Cartridge	Lt Cyan
US48LCYD220U	220ml	Cartridge	Lt Cyan

EPSON 4880 FASTINK

			Slot
US488LBLKD220U	220ml	Cartridge	Lt Black
US488LLBLKD220U	220ml	Cartridge	Lt Lt Black
US488LMGD220U	220ml	Cartridge	Lt Magenta
US48LCYD220U	220ml	Cartridge	Lt Cyan

EPSON 4900 FASTINK

			Slot
US49MBLKD200U	200ml	Cartridge	Matte Black
US49PBLKD200U	200ml	Cartridge	Photo Black

EPSON 7800-9800 FASTINK

			Slot
US78/98LBLKD110U	110ml	Cartridge	Lt Black
US78/98LLBLKD110U	110ml	Cartridge	Lt Lt Black
US78PBLKD220U	220ml	Cartridge	Lt Magenta

EPSON 7880-9880 FASTINK

			Slot
US788LBLKD220U	220ml	Cartridge	Lt Black
US788LLBLKD220U	220ml	Cartridge	Lt Lt Black
US788PLBLKD220U	220ml	Cartridge	Photo Black

EPSON 7900-9900 FASTINK

			Slot
US790LBLKD350U	350ml	Cartridge	Lt Black
US790ILBLKD350U	350ml	Cartridge	Lt Lt Black
US790PLBLKD350U	350ml	Cartridge	Photo Black

ACCUCART

Epson inkjets start out as color output devices. With the majority of slots in an Epson designated to color, these cartridges do NOT have value in the film output process. Because your priority is making quality BLACK films, the color carts are creating an on-going and costly problem - problem solved!

All Black Ink is a better bulk ink system because it provides high-quality dye ink (not pigment ink) delivered in cartridges (the way an Epson inkjet is engineered to deliver ink).

All Black Ink is managed automatically by the RIP (AccuRIP is the ONLY RIP that can do this) and dispenses a controlled amount of ink from each slot to your film during output. This helps maintain the life of your device. When each slot is routinely used during output, the nozzles are all being used. The result is less clogs and even NO clogs for some users.

The dye is custom manufactured in the US and is a high-quality, food grade dye with light-blocking technology (remember the days of ruby- and amber-lith?!). Pigment ink users literally have to lay down enough ink to physically block light through ink opacity during screen-making. Since dye users typically use less ink in the film making process, that means savings

ACCUCART FOR EPSON 1400/1440

The AFFORDACART for the Epson 1400 and 1440 are unique in that the cartridges have replacement ink tanks. The starter kit includes 6 cartridge / tank holders for each slot, 6 black refill tanks for all colors, and a chip resetter. Once you have the starter kit, you only need the replacement ink tanks that are interchangeable with any of the holders.

ACCUCART-1400-SK	Affordacart 1400 Starter Kit
ACCUCART-1400-RT	Affordacart 1400 Tanks

AFFORDACART FOR EPSON 1800

AFFORDACART-1800	Set of 8 Carts

AFFORDACART FOR EPSON 4800

AFFORDACART-4800	Set of 8 Carts

AFFORDACART FOR EPSON 4880

AFFORDACART-4880	Set of 8 Carts

AFFORDACART FOR EPSON 4900

AFFORDACART-4800	Set of 11 Carts

AFFORDACART FOR EPSON 7700/9700

AFFORDACART-7700	Set of 5 Carts

AFFORDACART FOR EPSON 7890/9890

AFFORDACART-7890	Set of 9 Carts

AFFORDACART FOR EPSON 7900/9900

AFFORDACART-7900	Set of 11 Carts

AFFORDACART FOR EPSON P400

AFFORDACART-P400	Set of 6 Carts

AFFORDACART FOR EPSON P600

AFFORDACART-P600	Set of 9 Carts

612-729-7361 ---- Phone
612-729-6647 ---- Fax
nwgraphic.com
800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
123

EPSON® Brand Inks

Genuine Epson cartridges for your Epson printer.

EPSON 1400/1440 18ml

EPSON-T079120	Photo Black
EPSON-T079220	Cyan
EPSON-T079320	Magenta
EPSON-T079420	Yellow
EPSON-T079520	Light Cyan
EPSON-T079620	Light Magenta

EPSON R1800 PRINTER 18ml

EPSON-T054020	Gloss Optimizer
EPSON-T054120	Photo Black
EPSON-T054220	Cyan
EPSON-T054320	Magenta
EPSON-T054420	Yellow
EPSON-T054720	Red
EPSON-T054820	Matte Black
EPSON-T054920	Blue

EPSON 4000 / 7600 / 9600 UltraChrome Inks

110 ml	220ml	
EPSON-T543100	EPSON-T544100	Photo Black
EPSON-T543200	EPSON-T544200	Cyan
EPSON-T543300	EPSON-T544300	Magenta
EPSON-T543400	EPSON-T544400	Yellow
EPSON-T543500	EPSON-T544500	Light Cyan
EPSON-T543600	EPSON-T544600	Light magenta
EPSON-T543700	EPSON-T544700	Light Black
EPSON-T543800	EPSON-T544800	Matte Black

EPSON 4800/ 4880 UltraChrome Inks

110 ml	220ml	
EPSON-T6051	EPSON-T6061	Photo Black
EPSON-T6052	EPSON-T6062	Cyan
EPSON-T605B	EPSON-T606B	Magenta
EPSON-T6054	EPSON-T6064	Yellow
EPSON-T6055	EPSON-T6065	Light Cyan
EPSON-T605C	EPSON-T606C	Light Magenta
EPSON-T6057	EPSON-T6067	Light Black
EPSON-T6059	EPSON-T6069	Light Light Black
EPSON-T6138	EPSON-T6148	Matte Black

EPSON 4900 UltraChrome Inks

200 ml	
EPSON-T653100	Photo Black
EPSON-T653200	Cyan
EPSON-T653300	Vivid Magenta
EPSON-T653400	Yellow
EPSON-T653500	Light Cyan
EPSON-T653600	Light magenta
EPSON-T653700	Light Black
EPSON-T653800	Matte Black

EPSON 7800 / 9800 / 7880 / 9880 UltraChrome Inks

110 ml	220ml	
EPSON-T6021	EPSON-T6031	Photo Black
EPSON-T6022	EPSON-T6032	Cyan
EPSON-T602B	EPSON-T603B	Magenta
EPSON-T6024	EPSON-T6034	Yellow
EPSON-T6025	EPSON-T6035	Light Cyan
EPSON-T602C	EPSON-T603C	Light Magenta
EPSON-T6027	EPSON-T6037	Light Black
EPSON-T6029	EPSON-T6039	Light Light Black
EPSON-T6118	EPSON-T6128	Matte Black

EPSON T3270/7270 UltraChrome Inks

350 ml	700ml	
EPSON-T693100	EPSON-T694100	Photo Black
EPSON-T693200	EPSON-T694200	Cyan
EPSON-T693300	EPSON-T694300	Magenta
EPSON-T693400	EPSON-T694400	Yellow
EPSON-T693500	EPSON-T694500	Matte Black

EPSON MAINTENANCE TANKS

EPSON-C12C890191	4000/4800/7600/9600/7900\9880
EPSON-C12C890501	7700
EPSON-T619100	4900
EPSON-T61930	SCT-3270

SubliJet IQ™

SAWGRASS TECHNOLOGIES

Sawgrass is the premier sublimation ink for ink jet printers. Sublimation ink is controlled with a special rip (Supplied at no cost by Sawgrass) to sublimation paper. This is then transferred with a heat press to a synthetic fabric or specially treated solid object. A fast, inexpensive way to decorate many objects.

EPSON   C88   C-84/86

Cyan	SG-203352	SG-203262
Magenta	SG-203353	SG-203263
Yellow	SG-203354	SG-203264
Black	SG-203351	SG-2032610

EPSON R1900

Cyan	SG-210242	Red	SG-2032410
Magenta	SG-203243	Orange	SG-2032416
Yellow	SG-203244	Photo Black	SG-203246
Black	SG-203241	Optimizer	SG-203240

EPSON 4800 110 ml   220 ml

	110 ml	220 ml
Cyan	SG-30033402	SG-703402
Magenta	SG-30033403	SG-703403
Yellow	SG-30033404	SG-703404
Black	SG-30033412	SG-703412
Lt Cyan	SG-30033407	SG-703407
Lt Magenta	SG-30033408	SG-703408
Red	SG-30033410	SG-703410
Blue	SG-30033411	SG-703411

EPSON 4880 110 ml   220 ml

	110 ml	220 ml
Black	SG-30031412	SG-7031412
Cyan	SG-3003142	SG-703142
Magenta	SG-3003143	SG-703143
Yellow	SG-3003144``	SG-703144
Blue	SG-30031411	SG-7031411
Lt Cyan	SG-3003147	SG-703147
Lt Magenta	SG-3003148	SG-703148
Red	SG-30031410	SG-7031410

EPSON 7700   Cart

Cyan	SG-7700-CY
Magenta	SG-7700-MG
Yellow	SG-7700-YE
Black	SG-7700-BK

MUTOH VALUE JET VJ628

Black	SG-VJ628-BK
Cyan	SG-VJ628-CY
Magenta	SG-VJ628-MG
Yellow	SG-VJ628-YE

OMNIPRINT FREEJET INKS

Gamut Plus Inks for Cotton, Blends, and 100% Polyester

Gamut plus inks are built with washability in mind our inks simply stand up to more washes and retain their brightness after the wash which results in less waste and keeps your customers coming back time and time again. Gamut plus inks can help you optimize your production. Gamut plus inks are designed to "set" faster which means you can take advantage of the one pass modes on you printers and no more waiting for white ink to set before printing the color pass. Gamut Plus inks flow better in your printer this means more reliable printing with less head cleanings required. Not another copy of existing ink. This is a patented NEW technology never seen on DTG inks. Use Gamut Plus on any direct to garment or direct to textile printer using Epson(R) DX5, DX7 print heads.

Gamut Plus Colors	8 oz.	16 oz.	1 Liter	1 Gallon
Cyan	DTG G 08 CY	DTG G 16 CY	DTG G 32 CY	DTG G 36 CY
Magenta	DTG G 08 MG	DTG G 16 MG	DTG G 32 MG	DTG G 36 MG
Yellow	DTG G 08 YE	DTG G 16 YE	DTG G 32 YE	DTG G 36 YE
Black	DTG G 08 BK	DTG G 16 BK	DTG G 32 BK	DTG G 36 BK
White	DTG G 08 WH	DTG G 16 WH	DTG G 32 WH	DTG G 36 WH

Gamut Plus Textile Pretreatment

Pretreatment is applied to shirts with a Wagner® Power Sprayer or automatic pretreat machine, and heat set in a transfer press. Pretreatment makes ink sit on the surface for a brighter print. While pretreatment is essential for printing white in dark shirts, either alone or as an underbase, it is optional on light colored shirts. FastBright pretreatment will make colors much brighter on light colored fabrics.

	1 Gallon
PreTreat for Dark Cotton Shirts	DTG G 36 DCP
PreTreat for Dark Polyester Shirts	DTG G 36 DPP
PreTreat for Light Cotton Shirts	DTG G 36 LC
PreTreat for Light Polyester Shirts	DTG G 36 LP

Gamut Plus Super Cleaner

Gamut Plus Super Cleaner	DTG G 36 SC

Omniprint Original Direct Ink

Use OmniPrint's own bulk ink – based on industry-leading DuPont® Artistri® for a dramatically lower cost of production and higher profit margins! Direct Ink Textile is a specially formulated water based, pigment textile ink that will work on 100% cotton (light and dark colored shirts) and 50/50 (light colored) materials. It only needs a simple heat setting with a transfer press to make the print wash fast. FastInk is manufactured to the highest standards, and is the brightest in the industry. Plus, Direct Ink White is the finest anywhere!

FastInk Colors	8 oz.	16 oz.	1 Liter	1 Gallon
Cyan	DTG O 08 CY	DTG O 16 CY	DTG O 32 CY	DTG O 36 CY
Magenta	DTG O 08 MG	DTG O 16 MG	DTG O 32 MG	DTG O 36 MG
Yellow	DTG O 08 YE	DTG O 16 YE	DTG O 32 YE	DTG O 36 YE
Black	DTG O 08 BK	DTG O 16 BK	DTG O 32 BK	DTG O 36 BK
White**	DTG O 08 WH	DTG O 16 WH	DTG O 32 WH	DTG O 36 WH

*Used only in T-Jets configured for light shirts only.
** Used only in T-Jets configured for printing on dark shirts.

TEXTILE PRETREATMENT

Pretreatment is applied to shirts with a Wagner® Power Sprayer or automatic pretreat machine, and heat set in a transfer press. Pretreatment makes ink sit on the surface for a brighter print. While pretreatment is essential for printing white in dark shirts, either alone or as an underbase, it is optional on light colored shirts. FastBright pretreatment will make colors much brighter on light colored fabrics

	1 Gallon
1 Gallon	
PreTreat for Dark Shirts	DTG O 36 PD
FastBright for Light Shirts	DTG O 36 PL

FastInk Cleaning Solution & Cleaning Swabs

A ready for use cleaner for cleaning heads on your T-Jet. T-Jet cleaning swabs are an indispensable ait in maintenance.

	8 oz.	16 oz.	QT	GAL
Purge solution	DTG O 08 PURG	DTG O 32 PURG	DTG O 32 PURG	DTG O G PURG

Super Nozzle Cleaner - 4 oz.	DTG-O-SNC
Swabs - Box of 50	FOAM SWAB

PERMANENT MARKERS

Permanent markers are solvent soluble, not water soluble. The term "permanent" in markers refers to solubility, not light fastness.

SHARPIE

A water resistant marker for writing on almost any surface. A bullet tip on the regular model or a fine plastic (0.4mm) tip on the Extra Fine Sharpie, mark boldly on metal, glass, plastic, foil, rubber, waxed paper, etc. The high intensity are also used for overhead projection. 12 per box.

SUPER SHARPIE
SA-33001	Black	SA-33003	Blue
SA-33002	Red	SA-33004	Green

REGULAR SHARPIE
SA-30001	Black	SA-30005	Yellow
SA-30002	Red	SA-30006	Orange
SA-30003	Blue	SA-30007	Brown
SA-30004	Green	SA-30008	Purple

ULTRA FINE SHARPIE
SA-37001	Black	SA-37003	Blue
SA-37002	Red	SA-37004	Green

TWIN TIP SHARPIE
A new Sharpie that features a regular tip in one end and an ultra fine tip in the other.

SA-32001	Black	SA-32003	Blue
SA-32002	Red	SA-32004	Green

MARS PIGMENT LINER

Permanent ink that is popular with accountants, students, artists and graphic designers, the Mars basic drawing pen is available in five different sizes. Any size is perfect for renderings, sketches and mechanical drawings. Because the ink dries fast and permanently, artists can wash and color overlay pigment liner ink artwork. There is no feathering or bleeding through paper. 10 per box

MR-308-OO5-9	.05mm Pigment Liner	Black
MR-308-01-9	.1mm Pigment Liner	Black
MR-308-02-9	.3mm Pigment Liner	Black
MR-308-05-9	.5mm Pigment Liner	Black
MR-308-07-9	.7mm Pigment Liner	Black
MR-308-10-9	1.0mm Pigment Liner	Black
MR-308-12-9	1.2mm Pigment Liner	Black

HIGGINS BLACK MAGIC

Black Magic is a waterproof intense black with a semi flat finish. Provides great opacity with adhesion to drafting film, paper or board. The medium viscosity helps prevent clogging in technical pens. Mixes with Higgins pigmented inks.

HI-4465	Higgins Black Magic	1 oz..

3085 ULTRADRAW

A waterproof ink specially formulated to be non-clogging in technical pens. It has a longer open time in the pen, but dries quickly on paper. There is good blackness, easy flow, and is non-smearing. No unpleasant odor.

K-3085F	3/4 oz Bottle	Black

TECHNICAL PENS

A technical pen is a writing instrument designed to produce an extremely uniform, dense line. It must meter ink so that the line width remains the same from start to finish, and produces a line dense enough for photographic reproduction. The pen does this using the principal of capillary action. The ink flows down a tube and around a wire that is inside the tube. The wire also breaks the surface tension when the point touches the drawing surface. A technical pen is a sensitive instrument that requires care and must be used with the right ink (see ink products later in this section). It is also recommended that the point and wire not be disassemble during cleaning.

KOH-I-NOOR RAPIDOGRAPH
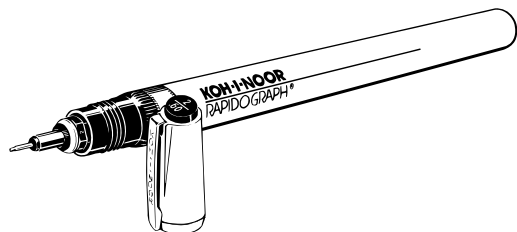
The Koh-I-Noor Rapidograph features an extra smooth feel on the drawing surface. The patented dry double seal cap system seals the entire nib and tube orifice This helps eliminate drying out. There is no need to add water, and no mechanical parts to jam. 13 different line widths are available that are marked in standard and metric sizes. Nine of these sizes are in widths that conform to the International Standards Organization (ISO). Available with stainless steel points.

COMPLETE PENS			POINTS
K-3165-013	6/0	.13mm	K-0072D-013
K-3165-018	4/0	.18mm	K-0072D-018
K-3165-025	3/0	.25mm	K-0072D-025
K-3165-030	2/0	.30mm	K-0072D-030
K-3165-035	0	.35mm	K-0072D-035
K-3165-050	1	.50mm	K-0072D-050
K-3165-060	2	.60mm	K-0072D-060
K-3165-070	2-1/2	.70mm	K-0072D-070
K-3165-080	3	.80mm	K-0072D-080
K-3165-100	3-1/2	1.00mm	K-0072D-100
K-3165-120	4	1.20mm	K-0072D-120

SLIM PACK SETS

Slim Pack Sets are sets in attractive plastic boxes with clear plastic lids and push button release. Each set includes a bottle of ink, and two nib wrenches. Sets are only about an inch thick to fit into drawers.

K-3165-SP-7   3/0, 2/0, 0, 1, 2, 3, 4   Steel Points
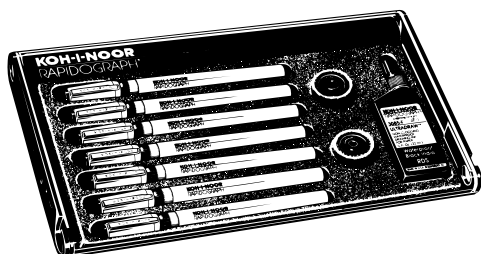
ART PAPERS

106 TRACING ROLL

Number 106 is a light weight sketching and tracing paper used by architects, designers and engineers. A white sheet that is perfect for preliminary drawings and sketches. In 50 yard rolls only.

BF-340-134	#106	12"
BF-340-136	#106	18"
BF-340-138	#106	24"
BF-340-140	#106	36"

107 CANARY TRACING

The choice of architects and engineers for preliminary sketches. A high quality canary yellow tracing paper with a slight tooth, and fine for reproducing. In rolls only.

BF-341-134	#107	12" x 50 yd
BF-341-136	#107	18" x 50 yd
BF-341-138	#107	24" x 50 yd

100 PARCHMENT

Excellent transparency and regularity in formation combine to make an excellent drawing surface.   The Parchment, part of the Designer series, is used for rough sketches, development drawings, and overlays.

50 Sheet		100 Sheet
BF-240-121	9 x 12"	BF-240-221
BF-240-130	11 x 14"	BF-240-230
BF-240-142	14 x 17"	BF-240-242
BF-240-161	19 x 24"	BF-240-261

360 GRAPHICS

The #360 Graphics pad by Bienfang has a 100% rag paper created for felt tip markers.   Holds sharp edges with excellent color penetration, and no bleeding through to the next sheet. Very good translucency. One of the Designer Series, in 50 and 100 sheet pads.

50 Sheet		100 Sheet
BF-316-121	9 x 12"	BF-316-221
BF-316-130	11 x 14"	BF-316-230
BF-316-142	14 x 17"	BF-316-242
BF-316-161	19 x 24"	BF-316-261

CUTTING TOOLS

#1 STYLE KNIFE

The most popular knife from X-Acto, the #1 knife is an aluminum handle that is 4-7/8" long and comes with a #11 blade. Has unlimited uses from professional graphic artists to hobbyists and accepts a variety of blades including #11, #10, #21, #12, #13, #14, #17 and #18.

X-3201   X-Acto #1 Knife   Carded
GR-0007   Grifhold #7 Knife   Carded

#2000 X-ACTO KNIFE

A new rubberized comfort grip knife with anti roll wedge and center barrel release. Has unlimited uses from professional graphic artists to hobbyists and accepts a variety of blades including #11, #10, #21, #12, #13, #14, #17 and #18. Safety cap included

X-3724   #2000 Knife Black   Carded

GRIPSTER STYLE KNIFE

A new rubberized comfort grip knife with anti roll design. Rear blade release for easy safe replacement. Has unlimited uses from professional graphic artists to hobbyists and accepts a variety of blades including #11, #10, #21, #12, #13, #14, #17 and #18. Safety cap included, all are carded.

X-3627   X-Acto Gripster   Black
GR 0501   EZ Grif-Hold Knife Black
GR 0502   EZ Grif-Hold Knife Blue
GR 0503   EZ Grif-Hold Knife Red

CUT-ALL KNIFE

The Cut-All knife by X-Acto is similar to the #1 knife, except that it has a plastic handle. This handle tapers toward the rear and is attached to an aluminum chuck. Uses the same blade as the #1 knife. All are carded.

X-3290   X-Acto Cut-All   Black

#2 X-ACTO KNIFE

The #2 knife has a slightly larger diameter handle than the #1, and uses larger shank blades. Has screw lock front clutch for blade release. Uses #2, #15, #18, #19, #22, #23, #24, #25, #26, #27 and #2 assortment blades.

X-3202   X-Acto #2 Knife   Carded

#5 X-ACTO KNIFE

A heavy duty knife with a red plastic handle that is 4-1/4" long. Comes with a #19 blade, and uses the same blades as the #2 knife plus razor saw blades. Ideal for hobby and craft work.

X-3205   X-Acto #5 Knife   Carded

#88 DUAL CUTTER

A double blade knife that makes parallel cuts quickly and easily. Rapid adjustment from very fine to 1/2" is made at the turn of a screw. Ideal for cutting lines on masking film, screen films, stencils, type strips (from strip type setting machines), and stencils. Blades are not replaceable.

GR-0088   Grifhold Dual Cutter   Carded

#44 PIN VISE

An all aluminum handle that holds #44P pins or drill bits up to 1/16" Ideal for fine scribing, retouching, stenciling, or perforating. Pin retracts into handle when not in use, carded.

GR-0044   Pine Vise   Carded
GR-0044-P   Pins for above Carded

#1

#2000

Gripster

Cut-all

#2

#5

#44

#88

#9

#10

#12

POUNCE WHEELS

A pounce wheel is made up of a handle that holds a small wheel with little teeth. The teeth on the wheel put a line of holes in paper they are rolled over. Usually the wheel is rolled over a pre-drawn design. The design becomes a pattern that can be held against an object and tapped or pounced with a bag of charcoal. This puts the pattern on the object. Carded.

GR-0009   1/4" Pounce Wheel, 21 Teeth/Inch
GR-0010   1/4" Pounce Wheel, 15 Teeth/Inch
GR-0012   7/16" Pounce Wheel, 15 Teeth/Inch

BLADES

These are the replacement blades for the knives listed on the previous pages. They are divided into three sections by the size of the handle chuck that they fit. Packaging is listed in four ways: Tuck box packaging is a unit of blades wrapped in paper. Carded blades are in a plastic tray on a blister card. A safety dispenser is a package of blades in a plastic box with a side compartment for disposal of used blades. Finally, the Bulk Pack is a unit of 100 blades in a paper box.

FOR SMALL HANDLES

These blades fit the popular light weight handles. Knives they fit include the X-Acto #1, #3, Super #1, Cut-All, #1 SGK, and the Grifhold #24. They also fit other brands of comparable knives.

#10 X-ACTO BLADES

A rounded edge blade for general cutting, carving, and correcting stencils.

X-0210	#10 Blades, Carded	Pkg. 5
X-0610	#10 Blades	Pkg. 100

#11 X-ACTO BLADES

An extremely sharp angled point for fine cutting and stencil cutting. Also ideal for masking films.

X-0211	#11 Blades, Carded	Pkg. 5
X-0411	#11 Blades, Safety Disp.	Pkg. 12
X-0611	#11 Blades, Bulk Pack	Pkg. 100

#7E GRIFHOLD BLADES

The same blade as the #11 with an extremely sharp angled point for

fine cutting and stencil cutting. Also ideal for masking films. High quality at a lower price.

GR-0007E	#7E Blades, Carded	Pkg. 5
GR-0007E-100	#7E Blades, Bulk Pack	Pkg. 100

#11 X-ACTO BROAD TIP

Same shape and use as the #11 blades above, except in A Broader Point for extra strength.

X-0291	#11 Broad Blades, Carded	Pkg. 5
X-0691	#11 Broad Blades, Bulk	Pkg. 100

#16 X-ACTO BLADES

An angle edge blade with an off set point. Popular for stenciling, scoring, etching, and film cutting.

X-0216	#16 Blades, Carded	Pkg. 5
X-0616	#16 Blades, Bulk Pack	Pkg. 100

#7F GRIFHOLD BLADES

The same blade as the #16 with an extremely sharp angled point for fine cutting and stencil cutting. Also ideal for masking films. High quality at a lower price.

GR-0007F	#7F Blades, Carded	Pkg. 5
GR-0007F-100	#7F Blades, Bulk Pack	Pkg. 100

#17 X-ACTO BLADES

A 1/4" wide chisel blade for narrow cuts.

X-0217	#17 Blades, Carded	Pkg. 5

FOR LARGE HANDLES

These following blades fit the common heavier handle knives. Knives they fit include the X-Acto #2, #5, #6, and the #3261 Woodcarving handle, plus other brands of similar knives.

#2 X-ACTO BLADES

An extremely sharp, angled point for fine cutting and stencil cutting. Ideal for masking films.

X-0202	#2 Blade, Carded	Pkg. 5
X-0402	#2 Blade, Carded	Pkg. 12

#18 X-ACTO BLADES

A 1/2" wide chisel blade for deep cross cuts and scraping.

X-0218	#18 Blades, Carded	Pkg. 5

#24 X-ACTO BLADES

An angled point used for close corner cuts, templates, mats, deburring, trimming, stripping, gasket cutting etc.

X-0224	#24 Blades, Carded	Pkg. 5
X-0624	#24 Blades, Bulk Pack	Pkg. 100

SPECIALTY BLADES

LIGHT WEIGHT BLADES

A light weight blade that is ideal for stencil cutting. Fits the Grifhold #6 knife. Same blade offered from both companies.

GR-0006-B	#6 Blades, Carded	Pkg. 5

612-729-7361 ---- Phone
612-729-6647 ---- Fax
nwgraphic.com
800-221-4079 ---- Toll Free Phone
800-544-7022 ---- Toll Free Fax
129

SPECIALTY BLADES

#8 X-ACTO BLADES

A refill for the #8 Utility knife.

X-0208   #8 Blades, Carded   Pkg. 5

#9 X-ACTO BLADES
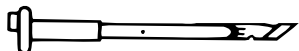
Refill blades for the #9 Retractable knife.

X-0209   #9 Blades, Carded   Pkg. 5

CRAFT REFILL BLADES

Refill blade for the X-Acto Craft Swivel knife #3241

X-0245   Craft Swivel Blade   Pkg. 2

113-B GRIFHOLD SWIVEL
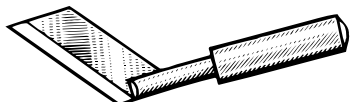
Replacement blade for the Grifhold #113 Swivel knife.

GR-113-B   #113 Grifhold Blade

88 DUAL CUTTER BLADE

Replacement blade for Grifhold #88 Dual Cutter

GR-0088   Dual Cutter Blade   Pkg. 1

161-B DUALFLEX BLADES

Replacement blades for the Grifhold #161 Dualflex cutter.

GR-0161-B   Grifhold Dualflex Blades   Set of 2

UTILITY BLADES
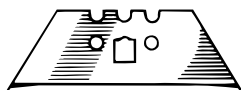
Heavy duty utility blades that fit X-Acto as well as most brands of utility knives. Carded.

X-0292   Utility Blades, Carded   Pkg. 5
x-0492   Utility Blades, Carded   Pkg. 15

Hvy. DUTY SNAP OFF BLADE

Fits the large snap off blade knife. For canvas, card, polyester and acetate, posters, mats, etc. Provide a continuous sharp blade.

X-243   Heavy Duty Snap Off Blade   Pkg. 5

Lt. DUTY SNAP OFF BLADE

Fits the small snap off blade knife. For canvas, card, polyester and acetate, posters, mats, etc. Provide a continuous sharp blade.

X-244   Light Duty Snap Off Blade Pkg. 5

#9 & #12 RAZOR BLADES
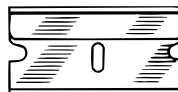
Single edge razor blades for a variety of cutting. #12 blades are heavier than #9 and recommended for mat cutters.

50-5086-9   #9 Razor Blades Bulk   Pkg. 100
50-5087-0   #12 Razor Blades Bulk   Pkg. 100

UTILITY KNIVES

SNAP-OFF BLADE KNIFE
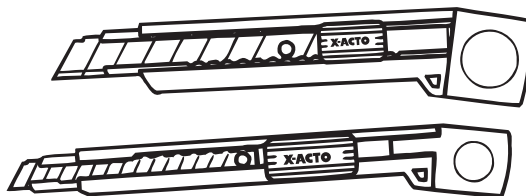
Heavy duty and light duty models for any kind of cutting. Both feature continuous snap-off blades for uninterrupted sharp cutting, and a slide lock mechanism with rigid metal safety sleeve. There is a storage compartment for extra blades, and both come with two extra blades. Carded

X-3243   Heavy Duty Snap-Off Blade Knife
X-3244   Light Duty Snap-Off Blade Knife

#8R UTILITY KNIFE
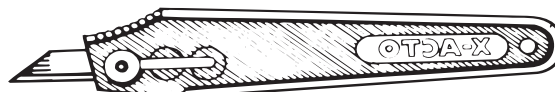
A light weight utility knife that can be used for a variety of uses. The handle is all plastic, while the handle is retractable and reversible. This means two edges can be used on each blade. Uses #208 replacement blades.

X-3208   X-Acto 8R Utility Knife   Carded

HVY DUTY UTILITY KNIFE

An ideal mat or heavy duty utility knife. All models feature a textured surface with a pistol grip that is shaped to fit the hand and not slip. Adjustable cutting depths to suit the job, and a large slotted screw for easy blade change. A compartment in the handle holds extra blades. Features a push button for depth selection, and full blade retraction into the handle. Carded. Uses standard utility blades.

X-3274   X-Acto Utility   Metal Handle

AKUKUT Depth Controlled Cutter

Clamp a standard single edge razor blade into this hand held device and control the depth of cut to 1/1000 of an inch. Slit carrier sheets or cut the top layer of film without disturbing the carrier.

AKUKUT   Controlled Depth Cutter

ZIPPY CUTTER

One of the most versatile tools ever designed for cutting paper, cloth, and plastic films. A standard double-edge razor blade is locked securely in the molded plastic handle. Slip the foot of the tool under the material to be cut and push for a straight, clean cut.

AL-K353   Zippy Cutter
AL-R53B   Zippy Cutter Blades   Pkg 12

SHARPENING STONE

A high quality, aluminum oxide sharpening stone that will keep cutting tools in tip-top shape. Measures 3-1/2 x 3/4 x 7/8".

GR-0043   Sharpening Stone   Boxed

DAHLE SUPER SHEAR

Today's styling in scissors, these scissors feature stainless steel, super sharp blades, contoured acrylic handles, and a light, featherweight touch. Self sharpening Solingen steel blades keep their edges, even through long, hard use. The contoured acrylic handles are more comfortable to hold, fit fingers better, and give better control. Made in America.

DH-50006   6" Super Shear
DH-50008   8" Super Shear
DH-50009   9" Super Shear
DH-50010   10" Super Shear

DAHLE VANTAGE SHEAR

Similar to Super Shear, this lower priced scissor features stainless steel, rust resistant blades, tough handles, and a light, featherweight touch. The contoured plastic handles are more comfortable to hold, fit fingers better, and give better control.

DH-40005   5" Vantage Shear
DH-40006   6" Vantage Shear
DH-40008   8" Vantage Shear

CUTTING BASE

ALVIN CUTTING BASE
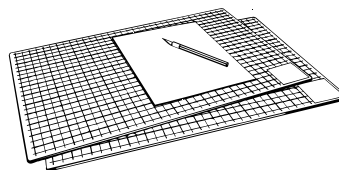
This cutting base is a self-sealing mat with an instant heal surface. Surface assures a long lasting, smooth base for both writing and cutting, even after many cuts. Knives cut smoothly and last longer, while pens write easier. Is attractive while also protecting light boxes and tables. There is a grid design on the surface and mats are available in either translucent or blue.

GREEN		TRANSLUCENT
AL-GBM-0812	8-1/2 x 12" Base	AL TM-2212
AL-GBM-1218	12 x 18" Cutting Base	AL TM-2218
AL-GBM-1824	18 x 24" Cutting Base	AL TM-2224
AL-GBM-2436	24 x 36" Cutting Base	AL TM-2236

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TRIMMERS

DAHLE TRIMMER

Attractive surface to compliment any decor, this cutter features self sharpening stainless steel blades that are ground and tempered to cut up to 15 sheets of paper. Also cuts film, poster board, and textiles. The patented blade design eliminates the need for a blade latch and prevents the blade from popping up or dropping down. A safety shield protects fingers and holds paper in place while maintaining visibility.

DH-012E	12" Dahle Personal Cutter
DH-015E	15" Dahle Personal Cutter
DH-018E	18" Dahle Personal Cutter
DH-212	12" Dahle Professional Cutter
DH-215	15" Dahle Professional Cutter
DH-218	18" Dahle Professional Cutter
DH-124	24" Dahle Professional Cutter

TRIANGLES

STAINLESS CUTTING EDGE

This is a professional .150" thick clear acrylic triangle. It features a stainless steel edge on one side for easy, nick free cutting. Edges are graduated in 16ths of an inch with an 1/8 inch grid on each right angle leg. Grids are visible on both light and dark surfaces. Double bevel and finger lifts for easy pick up.

30/60		45/90
AL-ACT360-10	10" Cutting Edge Triangle	AL-ACT450-10
AL-ACT360-14	14" Cutting Edge Triangle	AL-ACT450-14

INKING EDGE TRIANGLE

A premium acrylic triangle with a double bevel inking edge that keeps ink from markers, technical pens, ruling pens, etc. from spreading underneath. Precision made to .10" thickness with a transparent smoke tint for easy visibility. Continuous double bevel inside finger lifts provide easy pick up and placement. The ideal triangle for pen and ink by C-Thru.

30/60 TRIANGLES		45/90 TRIANGLES
AL-SK360-06	6" Inking Triangle	AL-SK450-06
AL-SK360-08	8" Inking Triangle	AL-SK450-08
AL-SK36010	10" Inking Triangle	AL-SK450-10
AL-SK360-12	12" Inking Triangle	AL-SK450-12
AL-SK360-14	14" Inking Triangle	N/A

ADJUSTABLE TRIANGLE

Transparent triangles of clear plastic that permit tracing of any angle from zero to 90 degrees. Inner graduations on the arc give degrees of one angle, while the outer row of figures gives figures of the degrees of the complementary angle. Available in a regular grade from ALVIN. individually boxed.

AL-LX710K	10" Adjustable Triangle

PERSONAL ROLLING TRIMMER
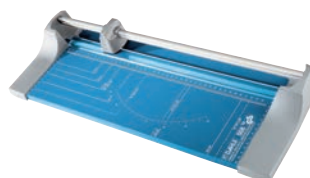
An attractive, lightweight, and portable rolling trimmer for offices, studios, art rooms, etc. The patented self-sharpening rotary blade cuts up to 7 sheets of paper in either direction. The high impact grid surface will not chip, fade, or scratch. Precision cuts from light weight tissue to film.

DH-500	9"	Personal Rolling Cutter
DH-507	12-1/2"	Personal Rolling Cutter
DH-508	18"	Personal Rolling Cutter

HEAVY DUTY ROLLING CUTTER

A precision cutter for light to medium weight material. Features metal base commercial grade construction and a rotary blade shielded for safe cutting. Precision cuts from light weight tissue to film, poster board, laminate, acetate, etc. Lifetime guarantee.

DH-550	13-3/8"	H/D Rolling Cutter
DH-552	18-1/8"	H/D Rolling Cutter
DH-554	26-3/8"	H/D Rolling Cutter
DH-556	37-1/2"	H/D Rolling Cutter
DH-558	50"	H/D Rolling Cutter
DH-696	Stand for #556	
DH-698	Stand for #558	

INKING EDGE
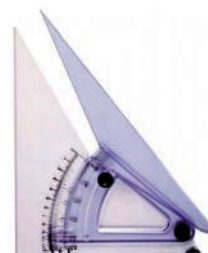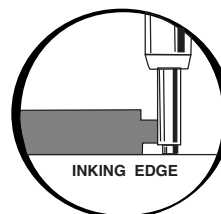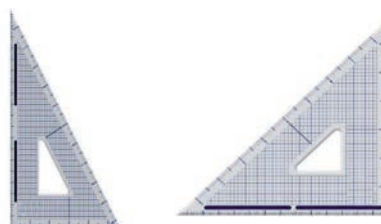
RULERS

C-THRU RULERS

C-Thru rulers are clear plastic with red markings in various scales and grids. These markings are easy to read for close registration over black lines beneath. Markings are laminated so they will not rub off.
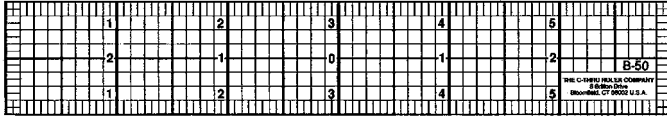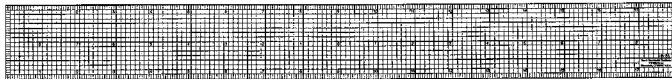

B-50   1 x 6" transparent graph ruler calibrated in sixteenths.
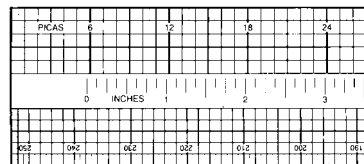CT-B-50   1 x 6" Ruler
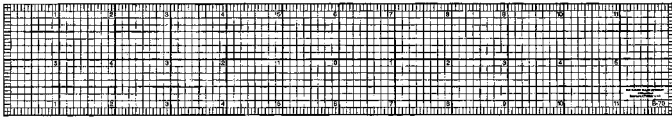
B-70   2 x 12" transparent graph ruler calibrated in sixteenths.
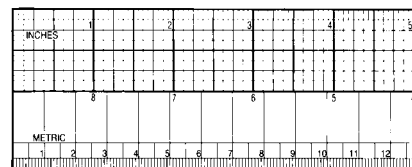
CT-B-70   2 x 12" Ruler
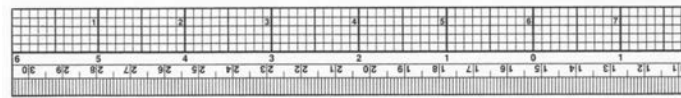
B-65   1 x 12" ruler with standard and metric scales, beveled both sides. Standard marked in tenths.

CT-B-65   1 x 12" Ruler

B-85   2 x 18" ruler with standard graph marked in sixteenths.

CT-B-85   2 x 18" Ruler

B-90   2 x 18" ruler marked in picas, agates, and inches.

CT-B-90   2 x 18" Pica Ruler

B-95   2 x 18" ruler with one edge divided in sixteenths, and the other in millimeters.

CT-B-95   2 x 18" Metric Ruler
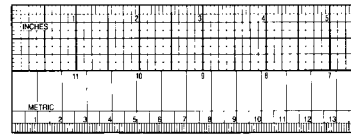
B-97   2 x 24" ruler with one edge divided in sixteenths, and the other in millimeters.

CT-B-97   2 x 24" Metric Ruler
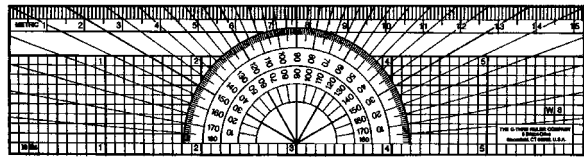
W-8   1-1/2 x 6" engineers protractor ruler with centimeter scale and inch calibrations in tenths.

CT-W-08   1-1/2 x 6" Protractor Ruler
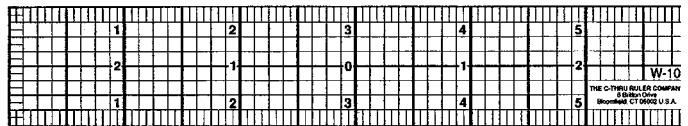
W-10   1 x 6" graph ruler calibrated in sixteenths.

CT-W-10   1 x 6" Graph Ruler
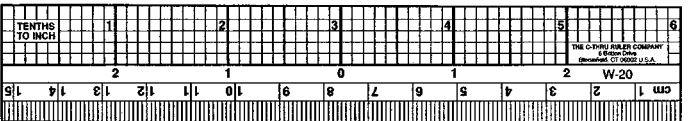
W-20   1 x 6" ruler with one edge in inches divided in tenths, and the other in millimeters.

CT-W-20   1 x 6" Metric Ruler
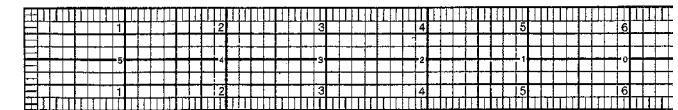
W-25   1 x 12" graph ruler marked in sixteenths of an inch.

CT-W-25   1 x 12" Graph Ruler

W-30   1 x 12" ruler with inch markings to sixteenths, and metric markings on the other side.

CT-W-30   1 x 12" Metric Ruler

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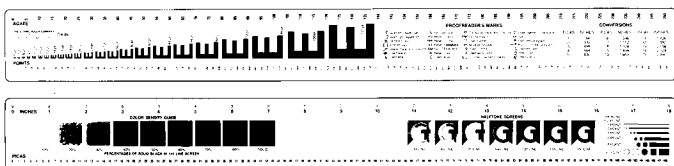
GRAPHIC ARTS RULER

A 2 x 18" opaque laminated ruler with inches, picas, and agate calibrations plus a variety of other data including proof readers symbols, printers rules (hairline to 12 point), ten percentage screens ranging from 10% to solid, halftone screens, plus a simplified copy casting system. Twelve point standard, and ten point elite typewriter copy counters are also offered.

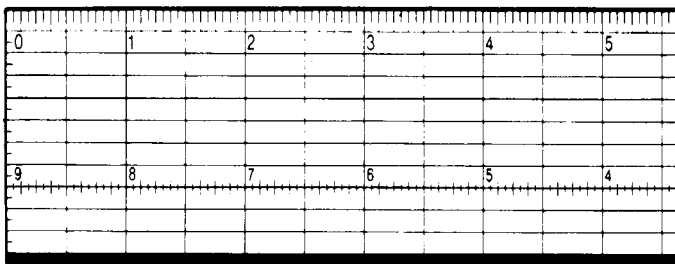CT-GA-86   2 x 18" Graphic Arts Ruler
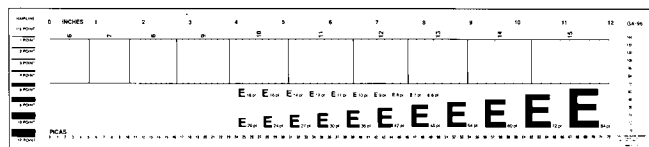
GRAPHIC ARTS LEADING GAUGE

3 x 13-3/4" ruler is printed on transparent plastic and laminated for printing permanency. It includes scales in picas, point sizes, printer's rules, sixteenths to the inch and a leading gauge.

CT-GA-96   3 x 13-3/4" Graphic Arts Leading Gauge

METAL EDGE RULERS

ARC-12 1-1/2" x 12-1/2" heavy guage clear acrylic ruler. .150 thick 0 centering scale. One edge is beveled, the other has a stainless steel edge. Calibrations and grids visible on both dark and light surfaces. Ruler is graduated in 16ths to the inch.
AL-ARC-12   1-1/2"x12-1/2" Steel Edge Ruler

ARC-20 Same as B-1M above except 1-1/2" x 18-1/2".

AL-ARC-20   1-1/2"x20" Steel Edge Ruler

METAL RULERS
GAEBEL RULERS

Gaebel rulers are premium stainless steel rulers that are available in a variety of types for any kind of ruling. Markings are etched into the metal and filled with black ink. This makes a ruler that will provide many years of service.

CORK BACK RULERS
A one sided ruler that has a thin strip of cork laminated to one side. This keeps it from slipping when set down. The ruler is 1-1/8" wide with inches on one side and metric on the other.

GB-206   6" Gaebel Cork Back Ruler
GB-212   12" Gaebel Cork Back Ruler
GB-215   15" Gaebel Cork Back Ruler
GB-218   18" Gaebel Cork Back Ruler
GB-224   24" Gaebel Cork Back Ruler
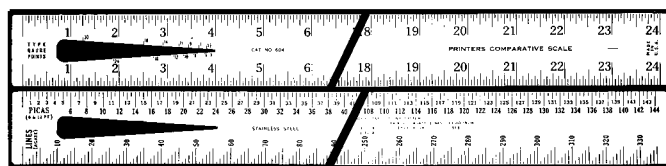GB-236   36" Gaebel Cork Back Ruler

GRAPHIC ARTS RULERS
Rulers for general purpose, printers, and graphic artists.
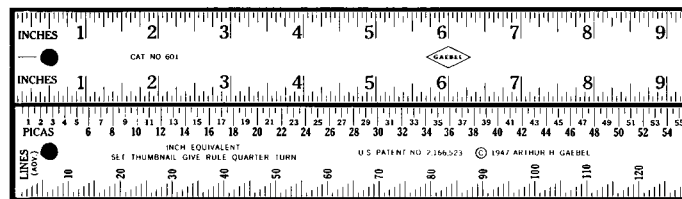
601   These two rulers have inches marked to sixteenths on the
602   front, with picas and lines on the back.

GB-601   12" Gaebel Ruler
GB-602   15" Gaebel Ruler

604   Same ruler as above except longer and wider (1-1/2").

GB-604   24" Gaebel Ruler
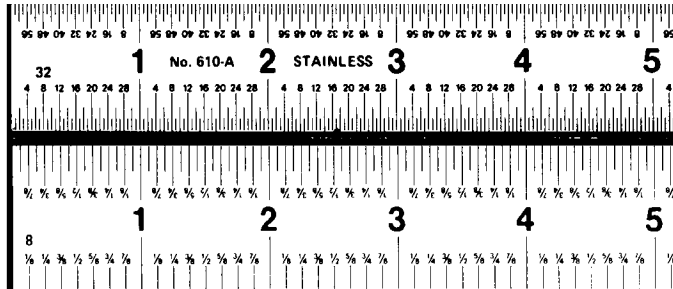
605   A 1-1/4" wide ruler that is one sided with inches on one side and picas on the bottom.
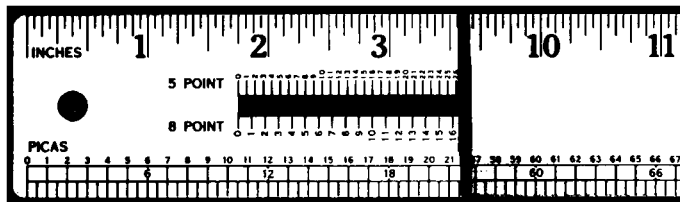
GB-605   36" Gaebel Ruler

608 A narrow, flexible (7/8" wide) ruler graduated in 16ths and 32nds with sub zero end in 32nds and 64ths. One sided.

GB-608   24" Gaebel Ruler
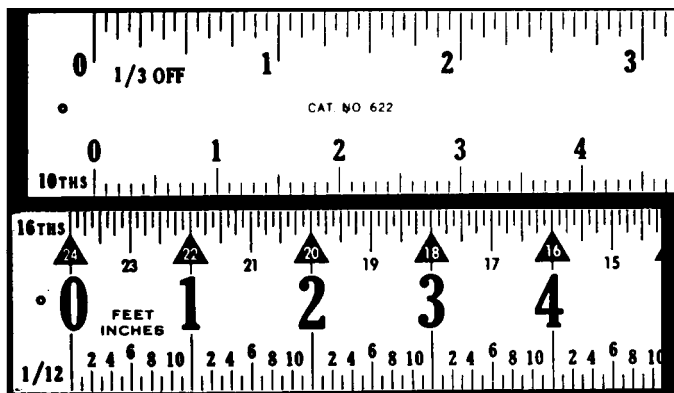

610A A 1" ruler with the front side in 8ths and 16ths and the back in 32nds and 64ths. One sided
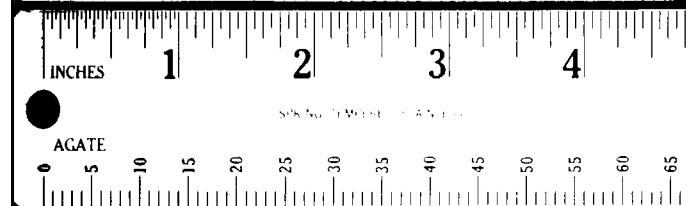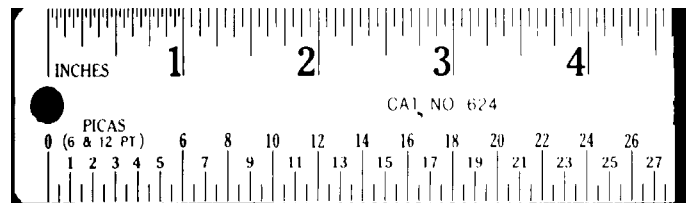
GB-610A   24" Gaebel Ruler

616 THE PUBLISHER
A 1-1/2" Publisher ruler with two 5" long slots. Front has inches, picas, 5-point, 5-1/2 point, 7 point and 8 point. Back side has 9 point, 10 point, 11 point, 14 point, 16 point, and agate.

GB-616   18" Gaebel Ruler

AD ARTIST'S SCALE
622 Two sided, 1-1/2" wide ruler with the front in 10ths and 1/3 off(artist scale), and the back with zero centering and 1/12 scale.

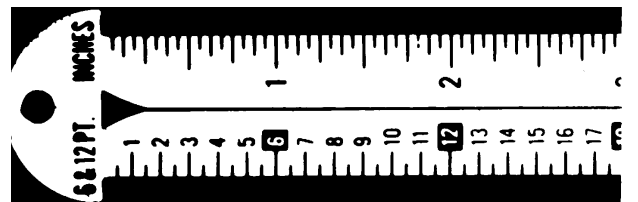GB-622-24   24" Ad Artist's Gaebel Ruler

624 A two sided, 1-1/4" wide ruler with the front in inches and picas, and the back in inches and agate.

GB-624-12   12" Gaebel Ruler
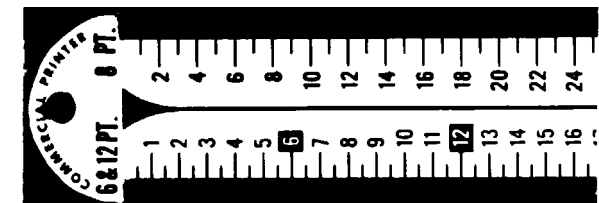GB-624-24   24" Gaebel Ruler

GAEBEL PRINTERS RULES
Gaebel stainless steel rulers with a special end that catches on the edge of printed stock for easy measuring.

612 A two sided ruler with the front in 6 & 12 point with inches. The back has 6 & 12 point with agate.

GB-612   12" Gaebel Ruler

612A A two sided ruler with 6 & 12 point with 8 point on the front, and inches and 8 point on the back.
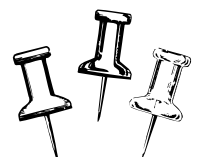
GB-612A-12   12" Gaebel Ruler

612F Similar to above. A two sided ruler 6 & 12 point on the front, with inches and agates on the back.

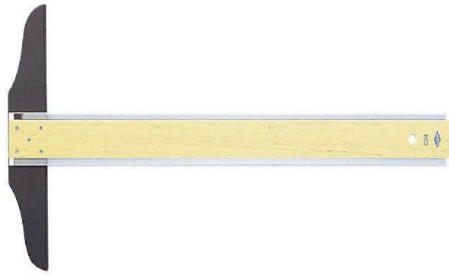GB-612F-12   12" Gaebel Ruler

PUSH PINS

The modern replacement to the thumb tack. In either aluminum or plastic. In boxes of 100.

MOR-2P-100-1   Moore Push Pin   Plastic Clear
MOR-2P-100-2   Moore Push Pin   Plastic Red
MOR-2P-100-3   Moore Push Pin   Plastic White
MOR-2P-100-4   Moore Push Pin   Plastic Blue
MOR-2P-100-5   Moore Push Pin   Plastic Yellow
MOR-2P-100-6   Moore Push Pin   Plastic Green
MOR-2P-100-7   Moore Push Pin   Plastic Assorted
MOR-2P-100-8   Moore Push Pin   Plastic Black
MOR-3-100   Moore Push Pin   Aluminum 3/8"
MOR-4-100   Moore Push Pin   Aluminum 1/2"
MOR-5-100   Moore Push Pin   Aluminum 5/8"

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T-SQUARES

ACRYLIC EDGE T-SQUARE

Acrylic edges are bonded to hardwood blades. Plastic and hardwood are bonded together in a special process, leaving the edges elevated for inking. Attached to ebony hardwood heads.

AL-C18	18" Acrylic Edge T-Square
AL-C24	24" Acrylic Edge T-Square
AL-C30	30" Acrylic Edge T-Square
AL-C36	36" Acrylic Edge T-Square
AL-C42	42" Acrylic Edge T-Square

ALUMINUM T-SQUARE

Hard aluminum blades that are accurately graduated on the edges. Markings are sharp and clear, plus blades are anodized and surface treated to minimize scratching and marking. Blades are 2" wide. By Fairgate

F63-118	18" Aluminum T-Square
F60-124	24" Aluminum T-Square
F60-130	30" Aluminum T-Square
F60-136	36" Aluminum T-Square
F60-142	42" Aluminum T-Square
F60-148	48" Aluminum T-Square

STAINLESS STEEL T-SQUARE

Stainless steel, tempered blades with beveled edges, and a fixed cast aluminum head. The blade is 1-1/2" wide with guaranteed accuracy.

AL-SST18	18" Stainless Steel T-Square
AL-SST24	24" Stainless Steel T-Square
AL-SST30	30" Stainless Steel T-Square
AL-SST36	36" Stainless Steel T-Square
AL-SST48	48" Stainless Steel T-Square

JR. 12 T-SQUARE

A clear plastic T-square with a fixed head that is calibrated in 16ths and millimeters. 12" length. Ideal for calligraphers.

CT-JR-12	12" Calibrated T-Square

STRAIGHT EDGES

STAINLESS STEEL STRAIGHT EDGE

Stainless steel straight edges that are an extra heavy, .093" thick. Blades are 2" wide and have one beveled and one straight edge.

AL-1109-18	18" Stainless Steel Straight Edge
AL-1109-24	24" Stainless Steel Straight Edge
AL-1109-36	36" Stainless Steel Straight Edge
AL-1109-42	42" Stainless Steel Straight Edge
AL-1109-48	48" Stainless Steel Straight Edge
AL-1109-60	60" Stainless Steel Straight Edge

SAFETY EDGE

A uniquely designed tool that provides accurate straight lines, and accident free cutting. The Dahle Safety Edge's protective guard rail protects your fingers from careless injuries. The extra wide, non-skid rubber backing protects your art from accidental cuts or slipping while drawing straight lines. The precision graduated edge makes it perfect for use with a ruling pen. Easy to hold, use and hang for storage, the Safety Edge is a tool you won't want to be without.

AL-SE12	12" Safety Edge
AL-SE18	18" Safety Edge
AL-SE24	24" Safety Edge
AL-SE36	36" Safety Edge
AL-SE42	42" Safety Edge
AL-SE48	48" Safety Edge
AL-SE60	60" Safety Edge
AL-SE72	72" Safety Edge

PARALLEL RULE

Paradraft parallel ruling straight edges have an ebony finish with a double thick phenolic blade with clear plastic edges. Parallel rules are faster and more precise than T-squares. Ball bearings make the rule float over the board and eliminate smudging. Slight pressure forces the ball bearings to retract and lock the rule in position. Includes all hardware necessary for mounting.

AL-1101-30	30" Parallel Rule
AL-1101-36	36" Parallel Rule
AL-1101-42	42" Parallel Rule
AL-1101-48	48" Parallel Rule
AL-1101-60	60" Parallel Rule

AIR BRUSHES

The air brush is a mini spray gun. It is used to apply many types of color in a wide variety of applications. These applications range from retouching photos to architectural renderings, to original art, to model painting. The air brush gives a high degree of control over the spray, making this possible, especially with the use of frisket films and liquids. There are several types of air brushes that are separated in groups as follows

DUAL ACTION

Dual action air brushes are the most versatile and generally the most expensive. The term "dual action" refers to the way the air brush is controlled. The trigger button is pushed down to control air, and pulled back for color. Both can be controlled with the same button. Most are also internal mix, which means that air and color are mixed inside the brush. This provides a very thorough atomization with little blobbing of color.

100 BADGER AIR BRUSH

The Badger 100 is a dual action, internal mix air brush. It is made to exact precision of all metal parts except for the teflon head seal and bearings. The 100 uses a side color cup with a screw off bottom for easy cleaning. Operates form 15 to 50 lbs. of air pressure, normal is 30 lbs. Available with two different heads that are interchangeable. The XF will spray from a pencil line to a 1" pattern with very low viscosity liquids. The IL model is spray from a 1/16" to 1-1/2" pattern with low viscosity liquids.

BA-100-1-XF   Badger XF Airbrush
BA-100-2-IL   Badger IL Airbrush

150 BADGER AIR BRUSH
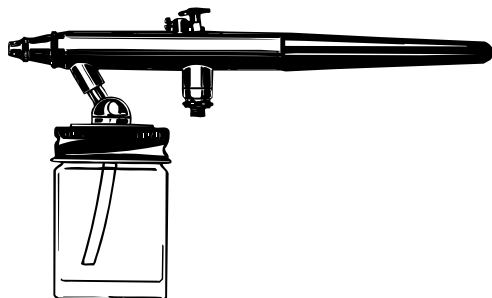
The Badger 150 model is the same as the model 100, except that the color is fed from the bottom, and not the side. This allows for either left or right hand use, and the use of a larger color jars. The 150 comes in three heads that are interchangeable. The HD head sprays four times the color that the XF head sprays in patterns from 1/8" to 2". 150 models come with 1/4 oz. color cup, plus 3/4 oz and 2 oz. bottles. The HD head will handle higher viscosity liquids such as acrylics, glazes, etc.

BA-150-1 IL   Badger IL Poster Air Brush
BA-150-2-XF   Badger XF Poster Air Brush
BA-150-3-HD   Badger HD Poster Air Brush

VL AIR BRUSH

The VL is a versatile air brush that is available with three different heads that are interchangeable. It can do work from fine lines to broad areas. The #1 head has the smallest pattern, from 1/32" to 1", and is for very light fluids. The #3 head has a range from 1/32" to 1-1/4" and is for thinned lacquers, enamels, and acrylics. The #5 head has a range from 1/16" to 1-1/2" and is for free flowing lacquers, enamels, and acrylics. All VL air brushes come with a 1/4 oz color cup and a 3 oz. color bottle. All operate at from 20 to 40 lb. pressure.

PAA-401   VL-1 Paasche Air Brush
PAA-403   VL-3 Paasche Air Brush
PAA-405   VL-5 Paasche Air Brush

VL SET

The VL set contains a VL-1 air brush, 1/4 oz color cup, 1 oz. and 3 oz. bottle assemblies, 1 oz. plain bottle with cap, #3 and #5 heads with needles, hanger, wrench, 6' hose, head protector cap and instruction booklet.

PAA-408   VL air Brush Set

V PAASCHE AIR BRUSH

A precision instrument for detail, shading, and tinting. A brush that is second only to the AB in ability for detail. Available with two heads: the #1 for 1/64" to 1" lines and very low viscosity colors, or the #2 for 1/32" to 1" lines and low viscosity colors. Heads are interchangeable.

PAA-201   Paasche V1 Air Brush
PAA-202   Paasche V2 Air Brush

175 BADGER AIR BRUSH
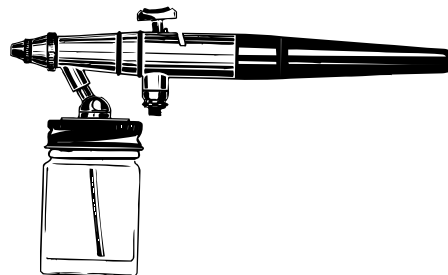
The Badger 175 Crescendo model features a larger body for comfort and handling. The 175 comes in three heads that are interchangeable. The HD head sprays four times the color that the XF head sprays in patterns from 1/8" to 2".

BA-175-1   Badger Crescendo, Fine
BA-175-2   Badger Crescendo, Medium
BA-175-3   Badger Crescendo, Large
BA-175-7   Badger Crescendo, kit w/3 Heads

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800-544-7022 ---- Toll Free Fax   137

SINGLE ACTION

A single action air brush is one where the trigger controls the air only. The amount of color that flows through is controlled by the needle which is locked in position at the rear of the brush. This is also an internal mix brush, or one where the air and color are mixed inside the brush. This provides through atomization of the color. Single action brushes are simple to operate and ideal for the beginner.

200 BADGER AIR BRUSH
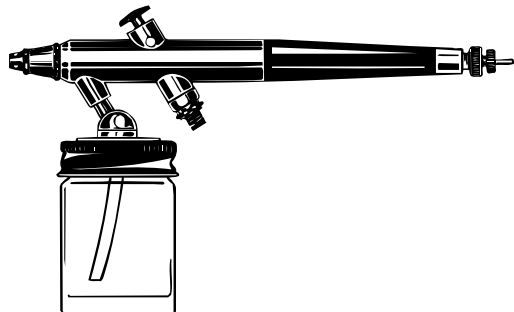
The Badger 200 is an all metal air brush with a bottom feed that can be used in either the right or left hand. The amount of color can be easily adjusted by a thumb screw at the rear of the handle. The 200 is available in two heads. The IL Model ranges from 1/16" to 1-1/2" with thinned down lacquers, enamels, etc. The HD model ranges from 1/8" to 2" and is for heavy viscosity colors such as enamels, ceramic glazes, or acrylics. The 200-3 kit comes with a can of Propel propellant, six foot vinyl hose, a 3/4 oz. color jar, and three 3/4 oz. color jars with screw covers.

BA-200-1   Badger Illustrator Air Brush
BA-200-2   Badger Heavy Duty Air Brush
BA-200-3   Badger Illustrator Air Brush Kit

EXTERNAL MIX

In external mix air brushes, the mixture of color and air occurs outside the head assembly. These brushes do not provide as through atomization of color as internal mix air brushes do; however, they are less expensive when compared to other models from the same company.

350 BADGER AIR BRUSH
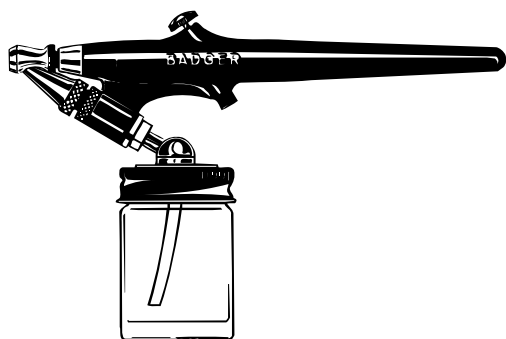
The Badger 350 is a brush that is easy to maintain and operate. Adjustment can be made for different width sprays by adjusting the color cap at the front of the brush. There are three different heads for different ranges of spray widths. Brushes come with 3/4 oz. and 2 oz. jars, wrench, and instructions.

BA-350-1-F   350 Badger Fine Air Brush
BA-350-1-M   350 Badger Medium Air Brush
BA-350-1-H   350 Badger Heavy Air Brush

EXTERNAL MIX
H PAASCHE AIR BRUSH

An easy to use brush that is dependable and adaptable. This external mix brush is available in three different, adjustable heads. The #1 head adjusts from 1/32" to 1" coverage and is for low viscosity materials such as water colors and inks. The #3 head adjusts from 1/32" to 1-1/4" coverage, and is for thinned lacquers, enamels, and varnish. The #5 head adjusts from 1/32" to 1-1/2" coverage, and is for most free flowing fluids. The Paasche H Air brush comes with 1/4 oz. metal color cup, 3/4 oz. color bottle, wrenches, hanger, and instruction book. Operates on from 20 to 40 lbs. air pressure.

PAA-601   H-1 Paasche Air Brush
PAA-603   H-3 Paasche Air Brush
PAA-605   H-5 Paasche Air Brush

H SET

The H set contains a H-1 air brush, 1/4 oz color cup, 1 oz. and 3 oz. bottle assemblies, 1 oz. plain bottle with cap, #3 and #5 color adjusting parts, hanger, wrench, 6' hose, head protector cap and instruction booklet.

PAA-608   H Air Brush Set

TRAVELERS KIT

Travelers kits contain an air brush, two cans of propellant, 4' air hose, tank valve, wrench and booklet.

PAA-613   H-3 Travelers Kit

HOSES

Braided Hose

Vinyl Hose

Coiled Hose

Hoses carry the air from the source to the air brush. They are available in two types: a vinyl hose for lower pressures, and a braided hose for higher pressures. Coil hoses are vinyl hoses formed in a coil to stay out of the way. Hoses from different manufacturers are usually not interchangeable without adaptors.

BA-50-0011   Badger 10' Vinyl Air Hose
BA-50-2011   Badger 10' Braided Air Hose
BA-50-4011   Badger 10' Coiled Hose
PAA-906   Paasche 6' Braided Hose
PAA-908   Paasche 8' Braided Hose
PAA-910   Paasche 10' Braided Hose
PAA-930   Paasche 10' Coil Hose

MOISTURE TRAPS

Moisture Trap

Hose W/Inline Moisture Trap

Moisture traps are small (about 2") cylinders that remove water, the by- product of compressed air. This helps reduce moisture damage and inconvenience. Provided separately and in-line in hoses.

PAA-825   Paasche Moisture Trap
PAA-918   Paasche 8' Hose W/ Moisture Trap
BA-50-2012   Badger Filter W/In-line Hose
BA-50-2015   Badger Filter Only

BRUSHES

Selected Red Sable is the premium grade used in artist brushes. This hair is taken only from the tails of the kolinsky, found only in Siberia and Russia. These brushes possess excellent spring, unusually fine points, and a full body.

7 WINSOR & NEWTON
Winsor & Newton has a tradition of quality with over 100 years of making the Series 7 brush. An excellent brush on plain black handles.

WN-5007-001	3/0	WN-5007-04	#4
WN-5007-002	2/0	WN-5007-05	#5
WN-5007-003	#0	WN-5007-06	#6
WN-5007-01	#1	WN-5007-07	#7
WN-5007-02	#2	WN-5007-08	#8
WN-5007-03	#3	WN-5007-10	#10

7050R PRINCETON SIBERIA
Only the finest Kolinsky hairs are used in this superb brush. Extraordinary natural spring and fine point. On natural wood handles.

P-7050R-003	3/0	P-7050R-06	#6
P-7050R-001	#0	P-7050R-08	#8
P-7050R-01	#1	P-7050R-10	#10
P-7050R-02	#2	P-7050R-12	#12
P-7050R-04	#4		

SYNTHETIC W/C

Synthetic filament has been recently developed for use in water color brushes. Filament is extruded in various thicknesses, cut, and each strand is pointed. The result is a brush that performs like the very finest grade of kolinsky, however, the price is much lower. Synthetic filaments have no pores as natural hair has, making these brushes easier to clean.

4050R HERITAGE SYN SABLE
This is the finest performing synthetic that we have ever seen. Duplicated all stroke of a top quality red sable. You must try this brush to appreciate its quality. Mounted on red stained handles in gold ferrules. By Princeton.

P-4050R-003	3/0	P-4050R-04	#4
P-4050R-002	2/0	P-4050R-06	#6
P-4050R-001	#0	P-4050R-08	#8
P-4050R-01	#1	P-4050R-10	#10
P-4050R-02	#2	P-4050R-12	#12
P-4050R-03	#3		

785 SIMMONS WHITE SABLE
Simmons introduced synthetic water color brushes with this White Sable. These brushes have blended diameters of hairs for the absolute feel of real sable. Razor sharp points in nickel ferrules, on polished brown handles with white ring and gold tip.

S-0785-008	8/0	S-0785-04	#4
S-0785-003	3/0	S-0785-05	#5
S-0785-002	2/0	S-0785-06	#6
S-0785-001	#0	S-0785-08	#8
S-0785-01	#1	S-0785-10	#10
S-0785-02	#2	S-0785-12	#12
S-0785-03	#3	S-0785-14	#14

4350R PRINCETON LAUREN
The Princeton 4350R series offers a great value in a synthetic brush. Very good quality at an affordable price. Ideal for touch ing up positives etc. A good value for schools. On short green handles with nickel plated seamless ferrules.

P-4350R-005	5/0	P-4350R-04	#4
P-4350R-003	3/0	P-4350R-06	#6
P-4350R-002	2/0	P-4350R-08	#8
P-4350R-001	#0	P-4350R-10	#10
P-4350R-01	#1	P-4350R-12	#12
P-4350R-02	#2	P-4350R-16	#16

SPOTTERS

7350SP PRINCETON RED SABLE
A top quality sable spotting brush for graphic arts, retouching, fine art or craft work. The Princeton Spotter has excellent color holding capacity, a sharp point and good snap. Nickel plated seamless ferrule with a short handle of gold lacquered hardwood.

P-7350SP-0001	10/0	P-7350SP-002	2/0
P-7350SP-005	5/0	P-7350SP-001	#0
P-7350SP-004	4/0	P-7350SP-01	#1
P-7350SP-003	3/0		

PMS® PROCESS GUIDE

PANTONE PROCESS GUIDE
Color Bridge

This fan shaped guide displays over 3000 CMYK color combinations on both coated and uncoated stock. These guides are the ideal way to visualize, communicate, and control applied process color for all graphic treatments. New features include higher resolution 175 line printing, KCMY print rotation for improved color presentation.

PMS-GP6102N   Pantone Process Guide Two guide Set

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PANTONE® BOOKS

FORMULA GUIDE

This reference is the industry standard for the selection and specification of color with the printer's formulas to the Pantone Matching System. With it, printers can translate the Pantone color number into print production. The complete range of 1147 colors and their ink mixing formulas are shown on both coated and uncoated stock.This new edition includes seven new metallics, an optional matte coated edition, brighter paper stocks to reflect color trends and the identification of colors that can be achieved by four color process.
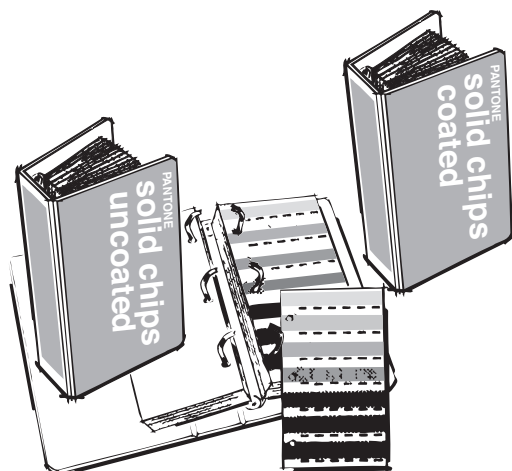
PMS-GP6101N   Pantone Formula Guide, Traditional
                (Coated & Uncoated)

METALLIC FORMULA GUIDE
This fan shaped guide is an indispensable tool that shows how301 metallic color will print on coated stock.

PMS-GP1507   Metallic Guide
PMS-GP1507   Metallic Chips

COLOR SOLID COLOR CHIPS

The Pantone Solid Color Chip set is a three book set the designer can use to insure that the printer has as accurate reference for any of the 1114 colors in the Pantone system. All colors are printed on six perforated into tabs for attachment to art work. A three binder set, there are Coated, Uncoated, and Matte volumes. There are improved perfs for cleaner chip edges and easier removal. Ikons are shown beneath each color that can be satisfactorily reproduced in CYMK four color process. There is also a CD-ROM Disc for entry of Pantone colors into popular graphic design programs. Replacement pages are available.

PMS-GP1606N   Pantone Solid Color Chips

RUBBER CEMENT

BEST-TEST RUBBER CEMENT
Best-Test rubber cement is made from a special premium quality of natural crude rubber, treated and blended to a formula which is one of the finest products for paper joining. For every paper joining need; photo mounting, layouts, dummies, masking, etc. There is never any curling, wrinkling, or shrinking.

BT-101   Pint Best Test Rubber Cement
BT-102   Quart Best Test Rubber Cement
BT-103   Gallon Best Test Rubber Cement

BESTINE R/C THINNER
For thinning and reducing all types of rubber cements. Contains no benzol or other toxic liquids. Also excellent for frisket work.

BT-201   Pint Bestine Thinner
BT-202   Quart Bestine Thinner
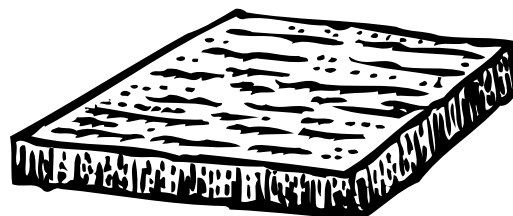BT-203   Gallon Bestine Thinner

JAR DISPENSERS
A sturdy jar with a tight cap and built in brush that adjusts to the depth of the rubber cement. This keeps the brush soft and pliable. The tight cap keeps the cement from drying out. Replacement parts are in stock.

BT-300G   9 oz. Glass Dispenser
BT-500G   16 oz. Glass Dispenser
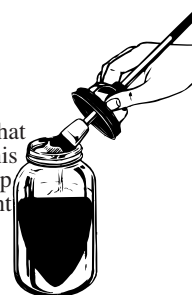
RUBBER CEMENT PICK-UP

A block of pure crepe rubber for quick removal and pick-up of excess rubber cement. It can also be used for cleaning, and cut to special shapes. Pick-ups are 2" square.

BT-700   Rubber Cement Pick-Up

LUCITE BRAYER

A clear lucite brayer for burnishing down adhesive coated art work. The non-porous lucite surface will not pick-up either wax or rubber cement. This means that it won't tack cement across that surface of your artwork.
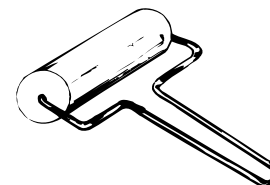
ST-44L   4" Lucite Brayer

RUBBER BRAYERS

Premium Speedball soft rubber brayers with a metal core to prevent warping. Comfortable molded rubber handles.
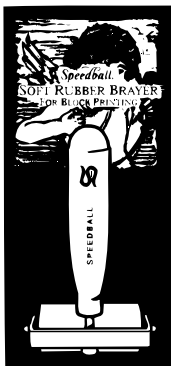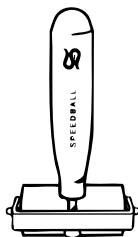
HU-4170	1-1/2"	#70 Brayer
HU-4171	2"	#71 Brayer
HU-4172	2-1/2"	#72 Brayer
HU-4173	3"	#73 Brayer
HU-4174	3-1/2"	#74 Brayer
HU-4126	4"	#64 Brayer
HU-4129	6"	#66 Braye

CARDBOARD EASELS

Sturdy and economical cardboard easel backs in single and double wing styles. Locking tabs and glue on feature for added stability. Approximately .050" thick. Easel should be at least 2/3 of the height of the display or cards being mounted. Double wing model ideal for use on large displays.

21-6200-6	4" Single Wing
21-6201-4	8" Single Wing
21-6202-2	10" Single Wing
21-6233-4	4" Double Wing
21-6234-6	6" Double Wing
21-6235-2	8" Double Wing
21-6236-0	10" Double Wing
21-6237-8	12" Double Wing
21-6238-6	15" Double Wing
21-6239-4	18" Double Wing
21-6240-0	24" Double Wing
21-6241-0	36" Double Wing

POSTER BOND

A fine quality 20 lb. bond paper for signs, banners, display backgrounds, theater posters, photographers backdrops, etc. A smooth surface with little tooth. Colors dry quickly with little dulling of color intensity. Water base colors will wrinkle this paper. Available in rolls only, 50 yards long.
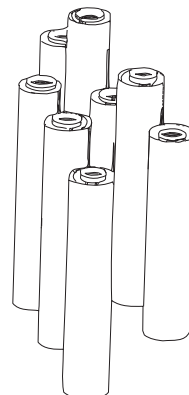
FX-2513	24" X 50 yd.
FX-2514	36" X 50 yd.
FX-2515	48" X 50 yd.

ART PAPERS

106 TRACING ROLL

Number 106 is a light weight sketching and tracing paper used by architects, designers and engineers. A white sheet that is perfect for preliminary drawings and sketches. In 50 yard rolls only.

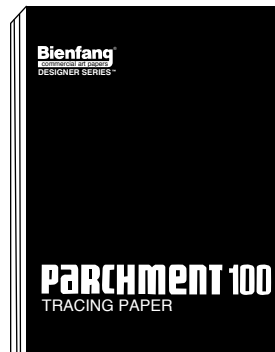| BF-340-134 | #106 | 12" |
| BF-340-136 | #106 | 18" |
| BF-340-138 | #106 | 24" |

107 CANARY TRACING

The choice of architects and engineers for preliminary sketches. A high quality canary yellow tracing paper with a slight tooth, and fine for reproducing. In rolls only.

BF-341-134	#107	12" x 50 yd
BF-341-136	#107	18" x 50 yd
BF-341-138	#107	24" x 50 yd

100 PARCHMENT

Excellent transparency and regularity in formation combine to make an excellent drawing surface. The Parchment, part of the Designer series, is used for rough sketches, development drawings, and overlays.

50 Sheet		100 Sheet
BF-240-121	9 x 12"	BF-240-221
BF-240-130	11 x 14"	BF-240-230
BF-240-142	14 x 17"	BF-240-242
BF-240-161	19 x 24"	BF-240-261

360 GRAPHICS

The #360 Graphics pad by Bienfang has a 100% rag paper created for felt tip markers. Holds sharp edges with excellent color penetration, and no bleeding through to the next sheet. Very good translucency. One of the Designer Series, in 50 and 100 sheet pads.

100 Sheet		50 Sheet
BF-316-221	9 x 12"	BF-316-12
BF-316-230	11 x 14"	BF-316-130
BF-316-242	14 x 17"	BF-316-142
BF-316-261	19 x 24"	BF-316-161
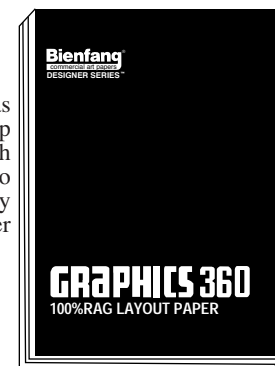
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PRESSURE SENSITIVE FILMS

PERMALAR M

The films listed below are available in thicknesses, color, and sizes other than those listed. TC in the number represents a film that is top coated for ink adhesion. NTC in the number represents a non-top coated film.

CLEAR PRINTABLE POLYESTER

A transparent polyester film with an aggressive permanent acrylic adhesive. Applicable for doors, window decals, decorative decals, product identification markings, parking meter decals, etc. They are also available with removable acrylic adhesive on special order. Films are 3.0-3.2 mils thick with adhesive. Sheets are 20" x 27" and packed 250 sheets per ctn. Rolls are 27' x 309'.

GF-C2/TC	Clear Polyester	Sheet
GF-C2/TC-R	Clear Polyester	Roll
GF-C2/NTC	Clear Polyester	Sheet
GF-C2/NTC-R	Clear Polyester	Roll

COLORED POLYESTER

The same polyester listed above, except with a pigmented permanent acrylic adhesive. The pigmented adhesive provides the color on the back side of the film. Applicable for doors, window decals, decorative decals, product identification markings, parking meter decals, etc. They are also available with removable acrylic adhesive on special order. C2 films are 3.0-3.2 mils thick with adhesive, C15 films are 2.5-2.7 mils with adhesive. Sheets are 20" x 27" and packed 250 sheets per ctn. Rolls are 27' x 309'. Special order by the case only.

GF-C2W/TC	White Polyester	Sheet
GF-C2W/TC-R	White polyester	Roll
GF-C2W/NTC	White Polyester	Sheet
GF-C2W/NTC-R	White polyester	Roll

SPECIAL ORDER -   MIN 250 SHTS OR 1 ROLL

GF-C15BK/TC	Black polyester	Sheet
GF-C15BK/TC-R	Black Polyester	Roll
GF-C15R/TC	Red polyester	Sheet
GF-C15R/TC-R	Red polyester	Roll
GF-C15Y/TC	Yellow Polyester	Sheet
GF-C15Y/TC-R	Yellow polyester	Roll
GF-C15B/TC	Blue Polyester	Sheet
GF-C15B/TC-R	Blue Polyester	Roll
GF-C15G/TC	Green Polyester	Sheet
GF-C15G/TC-R	Green Polyester	Roll
GF-C15O/TC	Orange Polyester	Sheet
GF-C15O/TC-R	Orange Polyester	Roll

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PLASTIC SQUEEGEE

For applying pressure sensitive films. Double edged and semiflexible. 3' wide polyethylene plastic.

54-6226-2	4" Plastic Squeegee
54-6227-0	6" Plastic Squeegee
54-6228-8	12" Plastic Squeegee
54-6229-2	72" Plastic Squeegee
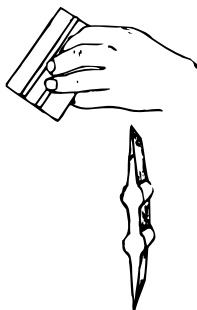
METALIZED POLYESTER

A metalized polyester film with an aggressive permanent acrylic adhesive. Applicable for identification markings, decorative trim, window decals, decorative decals, nameplates, etc. They are also available with removable acrylic adhesive on special order. Films are 3.0-3.2 mils thick with adhesive. Sheets are 20" x 27" and packed 250 sheets per ctn. Special Order by cartons only.

GF-S2/TC	Silver Polyester
GF-G2/TC	Gold Polyester

WHITE FLEXIBLE VINYL
Permanent Adhesive

A flexible vinyl film with an aggressive permanent pressure sensitive acrylic adhesive. Applicable for use where a high quality marking film is required for flexibility, durability, and resistance to sunlight. Made with a permanent rubber based adhesive, is also available with a top coating for improves adhesion with flexographic, offset, and letterpress inks Screen with vinyl inks such as GLV or AM.

GF-VFW-1P	20x27"	Sheet
GF-VFW-2P	24x30"	Sheet
GF-VFW-3P	27x35"	Sheet
GF-VFW-4P	27"x309'	Roll

WHITE FLEXIBLE VINYL
Removable Adhesive

A flexible vinyl film with an removable pressure sensitive acrylic adhesive. Ideal for bumper strips, temporary product markings, temporary fleet markings, or point of purchase. Applicable for use where a high quality marking film is required for flexibility, durability, and resistance to sunlight. Screen with vinyl inks such as GLV or AM.

GF-VFW-1R	20x27"	Sheet
GF-VFW-2R	24x30"	Sheet
GF-VFW-3R	27x35"	Sheet
GF-VFW-4R	27"x309 '	Roll

APPLICATION TRANSFER TAPE

A crepe transfer tape for lifting cut vinyl for transfer to the final sign.

RT-4050-02	Application Tape 2-1/4"x100yds.
RT-4050-03	Application Tape 3-1/4"x100yds.
RT-4050-04	Application Tape 4-1/4"x100yds.
RT-4050-06	Application Tape 6-1/2"x100yds.
RT-4050-06	Application Tape 6-1/2"x100yds.
RT-4050-08	Application Tape 8-1/2"x100yds.
RT-4050-10	Application Tape 10-1/2"x100yds.
RT-4050-14	Application Tape 14"x100yds.
RT-4050-16	Application Tape 16"x100yds.
RT-4050-18	Application Tape 18"x100yds.
RT-4050-24	Application Tape 24"x100yds.
RT-4050-36	Application Tape 36"x100yds.

MACHINE CUT VINYL

![comp-u-cut graphic films logo]

CC 500

5 YEAR FLEXIBLE CALENDERED VINYL

A flexible 3.0 mil polymeric gloss vinyl coated with a permanent acrylic pressure sensitive adhesive for computerized graphic sign cutting machines. Recommended for outdoor and indoor use where a high quality marking film requiring flexibility, durability and resistance to sunlight is required. Can be used for architectural signage, commercial-retail signage, point of purchase graphics, and decals. Can be printed with GLV, AM, GP and 76-000 series inks (test before production). Expected life to 5 years depending on UV exposure. Good solvent resistance to most petroleum oils, greases, and aliphatic solvents such as heptane, kerosene, and jet fuel. Rolls are 50 yards long and available in 15" & 30" punched, and 20", 24", 30", 36" and 60" unpunched.

501	Gloss White	522	Dark Yellow
500	Matte White	523	Lemon Yellow
502	Gloss Black	524	Daffodil Yellow
509	Matte Black	530	Brown
505	Gray	531	Beige
506	Midnight Blue	534	Burgundy
507	Cobalt Blue	536	Cranberry Red
508	Sapphire Blue	537	Cherry Red
510	Vivid Blue	538	Tomato Red
513	Ocean Blue	539	Light Red
514	Arctic Blue	541	Pink
515	Sky Blue	544	Orange
516	Teal	546	Purple
517	Forest Green	548	Plum
518	Dark Green	550	Gold
519	Green	551	Silver
520	Kelly Green		

GF-CC-XXX-Size   Ordering Number
GF-CC-CC   Color Card

METALIZED POLYESTER

A 2 mil print treated polyester film m with a permanent acrylic adhesive. Permanent decoration for product identification, displays, signage, etc. Expected outdoor life up to two years for silver and up to 6 months for gold. available in 15" x 50 yard rolls punched. By General Formulations.

760	Gold mirror	759	Chrome Mirror
839	Brushed Gold	838	Chrome Brushed

GF-CC-XXX-Size   XXX=Ordering Number
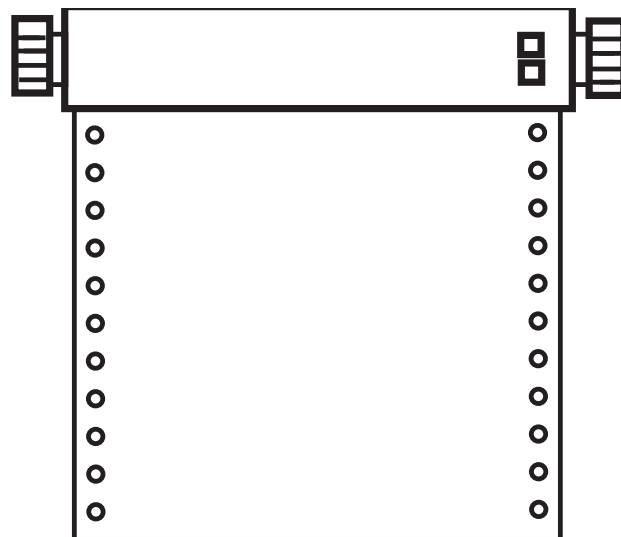
SCREEN FILMS
FOR CUTTING MACHINES

AMBER/RUBY MASKING FILM

An amber or ruby colored gel film mounted on a clear polyester film base. Ideal for creating line art work with your automated film cutter. Either film is safe for use as a positive for exposing screens. Not Punched

UL-RU3-151800	15"x1800" Rubylith RU3
UL-RU3-241800	24"x1800" Rubylith RU3
UL-RU3-301800	30"x1800" Rubylith RU3
UL-RU3-361800	36"x1800" Rubylith RU3
UL-RU3-481800	48"x1800" Rubylith RU3

S3S STA-SHARP FILM

A solvent adhering knife cut film on a polyester base. Use adhering liquid to transfer film to mesh. Becomes the image. For use with all inks except lacquer and polyester. Not Punched

UL-S3S-241800	24"x1800" Sta-Sharp S3S

ULANOCUT FILM

A water soluble knife cut film on a polyester base. Use water to transfer film to mesh. Becomes the image. For use with all inks except water soluble. Available in Amba (amber) or green, not Punched

UL-UCG-151800	15"x1800" Ulano Cut Green
UL-UCG-241800	24"x1800" Ulano Cut Green
UL-UCG-301800	30"x1800" Ulano Cut Green
UL-UCG-521800	52"x1800" Ulano Cut Green

612-729-7361 ---- Phone
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800-544-7022 ---- Toll Free Fax   143

INKJET MEDIA

PROOF BOND

24lb. Economical uncoated bond paper. Suitable for quick proofs, technical drawings, temporary signs and displays. Available in 150' rolls only.

MSP-MB-17150	17" x 150'	Roll
MSP-MB-24150	24" x 150"	Roll
MSP-MB-36150	36" x 150'	Roll
MSP-MB-42150	42" x 150'	Roll

GLOSS WATERPROOF PAPER

Heavy weight gloss photo quality paper that dries totally waterproof. Ideal for photography, display, etc. For dye and pigment inks.

IJGP-00810	8½ x 11"	Box/100
IJGP-01319	13 x 19"	Box/100
IJGP-17100	17" x 100'	Roll
IJGP-24100	24" x 100"	Roll
IJGP-42100	42" x 100'	Roll

LUSTER WATERPROOF PAPER

Heavy weight low gloss photo quality paper that dries totally waterproof. Ideal for photography, display, etc. For dye and pigment inks.

IJLP-00810	8½ x 11"	Box/100
IJLP-01319	13 x 19"	Box/100
IJLP-17100	17" x 100'	Roll
IJLP-24100	24" x 100"	Roll
IJLP-42100	42" x 100'	Roll

MATTE PAPER

120 gram intermediate weight paper. Features premium coating and base paper. Instant dry. Thermal piezo printers. Dye or pigmented inks. With Epson Ultrachrome inks, Matte black is recommended. printers with UV ink and Epson Ultrachrome Inks using Photo Black.

MSP-PLH-17150	17" x 150'	Roll
MSP-PLH-24150	24" x 150"	Roll
MSP-PLH-36150	36" x 150'	Roll
MSP-PLH-42150	42" x 150'	Roll

MATTE ADHESIVE

36lb. matte paper with adhesive backed coating. Universal, works with all printers.

MSP-MA-17100	17" x 100'	Roll
MSP-MA-24100	24" x 100"	Roll
MSP-MA-36100	36" x 100'	Roll
MSP-MA-44100	44" x 100'	Roll

WHITE VINYL PRESSURE SENSITIVE

3.5 mil, adhesive backed, water resistant vinyl. For thermal/piezo printers with dye or pigmented inks.

MSP-WPC1750	17" x 50'	Roll
MSP-WPC2450	24" x 50"	Roll
MSP-WPC3650	36" x 50'	Roll
MSP-WPC4450	44" x 50'	Roll

SUBLIMATION TRANSFER

QC PRO DIGITAL SUBLIMATION PAPER

QC Pro Digital Sublimation papers were specifically designed to work with all versions of Sawgrass Sublijet inks. This paper is calibrated to be used with the Sawgrass Power Driver, with no modification to the profiles. Each carton is individually bar-coded with the master reel lot number, and each lot number is tested with Sublijet inks to ensure the highest quality product, and compliance with Sawgrass specifications. It is approved by Sawgrass Technologies for all supported Ricoh and Epson desktop printers and all Epson Professional Stylus Pro wide format printers.

QC Pro is packaged in 500 sheet boxes, with an inner clear storage bag containing 100 sheets. Rolls are available in 13", 17", 24", 36", 44", and 64".

QC-PRO-00811	8-1/2" x 11"	Box of 100
QC-PRO-01117	11" x 17"	Box of 100
QC-PRO-01319	13" x 19"	Box of 100
QC-PRO-01722	17" x 22"	Box of 100
QC-PRO-13100	13" x 100"	Roll
QC-PRO-17100	17" x 100"	Roll
QC-PRO-24100	24" x 100"	Roll
QC-PRO-36100	36" x 100"	Roll
QC-PRO-44100	44" x 100"	Roll
QC-PRO-64100	64" x 100"	Roll