



## ORGANIC APPROVED TEXTILE INKS FOR COLOUR MATCHING

**PERMATONE®**



Yellow GS



Yellow RS



Orange



Red YS



Blue



Violet



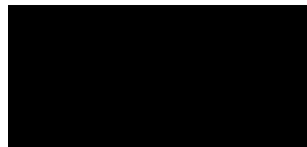
Magenta



Red BS



Green



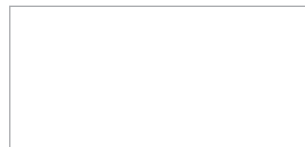
Black



White



Extender



First Down White

**GLOW\*†**



Glow Yellow



Glow Green



Glow Orange



Glow Blue



Glow Red



Glow Violet



Glow Pink



Glow Magenta

**PROCESS†**



Process Yellow



Process Magenta



Process Cyan

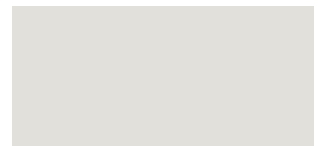


Process Black

**METALLIC†**



Pearl White



Bright Silver



Gold Lustre



Copper

\*All Glow colours exhibit diminished light fastness, particularly in direct sunlight.

†Glow, Process and Metallic colours are part of the PERMASET® range.

Colour swatches are a guide only and are as close as printing processes allow. When colour is critical, test printing is essential.

# Permatone®



Drying	Thinning & Wash-up	Mesh Range	Stencil Type	Coverage & Mesh	Applications	Fabrics	Colour Range
For optimum fastness <b>PERMATONE®</b> should be heat cured.  If drying in the screen, add 1-3% <b>PERMASET® Print Retarder</b> .	If necessary, thin with up to 5% water.  Dried in ink may be washed out with conventional or eco-friendly screenwash.	Monofilament Polyester. 43-120T (110-305 tpi) depending on application for <b>PERMATONE®</b> , Glow & Process colours.  43-90T (110-225 tpi) depending on application for <b>PERMASET SUPERCOVER®</b> , First Down White and <b>PERMASET®</b> Metallic colours.	MUST be water resistant, fully dried & fully cured.  Emulsion: Recommend: Fujifilm Dirasol® 916 or KIWO POLYCOL® MULTI-TEX / VERSA-TEX™ or ULANO® 925WR or Chromaline® CP-TeX™ or MacDermid Autotype PLUS 6000 or Murakami TXR®/T9.	15-21 m <sup>2</sup> /L with 62T mesh.  612-857 square feet per gallon with 155 tpi mesh.	T-Shirts, Flags, Banners, Sports and Fashion Wear, Scarves, Swimwear, Upholstery and Window Furnishings.  Yardage, cushions, table and bed linen, tea towels and tote bags.	Cotton. Cotton/Polyester blends and most synthetic fabrics.  Fastness to wash and dry cleaning on wool may be diminished.	9 <b>PERMATONE®</b> colours + <b>PERMATONE®</b> Black, White + Extender.  <b>PERMASET SUPERCOVER®</b> First Down White.  8 Standard Glow, Process set (CMY+K) & 4 Metallic colours.
<b>Properties</b> Organic approved textile inks for colour matching. Matt Finish. Solvent-free. Low odour. Intermixable, light fast,* non-bleeding colours. Brilliant transparent shades in <b>PERMATONE®</b> , Glow <sup>†</sup> and Process <sup>‡</sup> colours. Excellent opacity with <b>PERMASET SUPERCOVER®</b> First Down White as an underbase. Metallic <sup>‡</sup> colours exhibit excellent opacity. Soft handle. Excellent wash and dry clean resistance once cured. Ironable.				<b>Product Resistance</b> After heat curing, prints exhibit excellent resistance to wet and dry rub.			

## DRYING AND CURING

For optimum wash and colour fastness, prints should be fully heat cured. Whilst the below information is a guide, the curing schedule used should be chosen to suit the heat resistance of the fabric being printed.

Care must be taken with IR dryers to ensure that prints are fully cured. When printing on synthetic blends and fabrics, a lower curing temperature and longer drying time is recommended. If your drying conditions fall outside these recommendations, please contact your local representative for technical assistance.

The following curing guidelines are recommendations for ink deposit temperatures, not dryer temperatures. This should be checked with temperature strips or IR gun to ensure that appropriate temperatures are achieved.

2-3 Minutes @ 160°C (320°F)

5-6 Minutes @ 140°C (285°F)

8-9 Minutes @ 120°C (250°F)

If using **PERMASET®** Print Retarder in the ink, note that this will also slow drying in the oven. Ensure that a test wash is completed to confirm that cure regime is adequate.

## FASTNESS

Light Fastness is good-excellent. Most colours achieve a rating of 8/8 on the Blue Wool Scale, but all\* are not less than 6/8. When fully heat cured, prints have excellent wash and dry clean fastness.

Colour Matches: Note that high temperatures combined with strong detergents can cause colour changes in some colour matches. It is therefore imperative that all formulations are checked for acceptable wash fastness properties prior to production.

\* All Glow colours exhibit diminished light fastness, particularly in direct sunlight.

PERMASET, PERMASET SUPERCOVER, PERMATONE and PERMAPRINT PREMIUM are registered or pending trademarks.

PERMASET, PERMASET SUPERCOVER, PERMATONE and PERMAPRINT PREMIUM inks are manufactured by:

**colormaker**  
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quality coatings through research & innovation

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