



# TECHNICAL

#118  
BULLETIN

## Pyroscreen Inks

**OVERVIEW** - Gans Pyroscreen Heat Transfer Sublimation inks are now available in both Solvent and Waterbase vehicle systems. Both products offer the versatility of the silkscreen printing process and are designed to apply Sublimation screen inks onto paper. These prints may then be transferred via heat and pressure onto Polyester or other synthetic materials. This process is not suitable for Cotton and natural fibers. When transferred onto suitable substrates, Pyroscreen inks offer excellent resistance to perspiration and laundering and have good fade resistance.

**PRINTING** - When first printed onto paper, Pyroscreen inks appear to be weaker and duller compared to non-sublimation colors. However, when transferred, the dyes used in Pyroscreen develop their true color strength and brilliance. It is essential, therefore, that a test print be transferred on the job material to obtain a true picture of the finished product, prior to running the entire job.

**MATERIALS** - Pyroscreen inks can be transferred onto the following materials: Polyester Lycra, Nylon, and Polyester/Cotton blend fabrics (at least 65% Polyester). Plastics, woods and metals that are treated for the Sublimation process are also widely used. Due to the transparent nature of Sublimation Dyes, white colored substrates give the best reproducible color. Pre-testing is recommended to determine suitability for your particular product.

**PRINT QUALITY** – When using various screen mesh counts and screen tints, a wide variety of PMS colors and 4/Color images can be achieved. Screen meshes of 255-355 using monofilament Polyester are recommended when using Solvent base Pyroscreen inks. We recommend Water base Pyroscreen inks be used with 230 – 305 monofilament Polyester ONLY as other meshes may lose tension during use.

**COLORS** – Pyroscreen inks are available in a wide variety of colors including, 4/Color Process fluorescents, Gans Presidential colors, Pantone\* shades and dense black. Colors are matched to the coated section of the Pantone color book and Gans color chart unless otherwise specified. Due to the nature of the dyes, an exact match is not possible for some colors. In these cases, the colors submitted will be the closest match, obtainable. Pyroscreen inks are not available in opaque or metallic.

*(Continues)*

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COLOR MATCHES – Please provide a sample of the final material with a color copy as well as transfer time and temperature for the most accurate match possible.

## SPECIFICATIONS

### Pyroscreen Solvent Base

V.O.C. Content: 5.5 lbs. per Gallon Maximum

Coverage: 1200 – 1500 sq. feet per Gallon

Paper: Uncoated smooth, and Matte papers.

Drying: Solvent Evaporation

Air Dry: 10 – 20 minutes.

Force Dry: Less than 1 minute.

Transfer: 400° F. with a dwell time of 30 sec.

Thinner: Use Gans Pyroscreen Thinner S-1305

Retarder: Use Gans Pyroscreen Retarder S-1306

Extender: Use Gans Pyroscreen Extender S-1307

Wash-Up: Use Gans Pyroscreen Wash S-1308

### Pyroscreen Water Base

V.O.C. Content: 2.5 LBS. per Gallon

Coverage: 1500 – 2000 sq. feet per Gallon

Paper: Uncoated smooth and Matte papers

Drying: Solvent Evaporation.

Air Dry: 10 – 20 minutes

Force Dry: Less than 1 minute

Transfer: 400° F with a dwell time of 30 sec.

Thinner: Use Gans Pyroscreen Thinner S-1315

Retarder: Use Gans Pyroscreen Retarder S-1316

Extender: Use Gans Pyroscreen Extender S-1317

Wash-Up: Use Gans Pyroscreen Wash S-1318

For best results, we recommend NAZDASOL X-TRA DUAL-CURE EMULSION for both water and solvent base inks.

\*Pantone®, Inc.'s check-standard trademark for color reproduction & color reproduction materials.

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