

## PYROSCRIPT INKS

**Overview** - Gans' Pyroscript inks are designed to apply a reverse image onto paper using lithographic equipment. The finished prints are then transferred with heat and pressure onto polyester or other synthetic materials. When transferred onto suitable substrates, Pyroscript offers brilliant color and good resistance to the effects of light and laundering.

**Printing** - When first printed onto paper, Pyroscript inks appear to be weaker and duller than standard Lithographic inks. When transferred, the dyes used in Pyroscript inks develop their true color strength and brilliance. It is essential therefore, that a test print be transferred onto the job material to obtain a true picture of the finished product, prior to running the entire job. These inks do not require the use of specialized release paper and a silkscreen applied plastisol coating. Instead, they work through the process of sublimation. The dyes in the ink are exposed to heat, which causes them to "sublime" (i.e., they convert directly from a solid state to a vapor state without passing through a liquid state). The dyes are now transferred from the paper onto the fabric.

**Materials** - Pyroscript inks can be transferred onto the following materials. Polyester, Lycra, Nylon and Polyester/Cotton blend fabrics (at least 65% Polyester). Plastic, wood and metals that are treated for the Sublimation process are also widely used. Cotton and naturally occurring fabrics are not suitable for this process. 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.

**When using these inks, consider the following:**

**PAPER** - Any standard quality, smooth uncoated stock with a neutral pH, is suitable. Matte coated paper is used for high definition printing on hard surface substrates.

**FOUNT** - Alcohol and Alcohol replacement content should be kept as low as possible to minimize emulsifying of the inks. Pyroscript can be run with either, conventional or integrated dampening systems.

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**TRANSFER** - Gans Ink Company recommends a constant temperature of 400' F, with a dwell time of 30 seconds be used for 100% Polyester fabrics. Other materials may require some variation in these conditions. Please notify Gans Ink Company if your transfer parameters change.

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

**COLOR MATCHES** - are also available. 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.

\*PANTONE®, is the property of Pantone, Inc.

GANS INK & SUPPLY COMPANY  
1441 BOYD STREET ❖ LOS ANGELES ❖ CA ❖ 90033  
(800) 421-6167 ❖ (323) 264-2200 ❖ FAX: (323) 264-2916