



# SUBLIMATION



## OVERVIEW

Gans Ink & Supply Co. is an American manufacturer of sublimation inks for all commercial printing applications, including lithography, silk-screen, flexography and rotogravure. Having introduced sublimation ink to North and South America in the late 1960's and to the international market in the 1970's, Gans has become the leader in the manufacturing and application of commercial sublimation inks.

## SUBLIMATION INKS



Sublimation inks are designed to apply a mirror image onto paper for transfer to the final substrate. The prints are transferred via heat and pressure onto polyester or other synthetic materials.

Suitable fabrics also include those made with natural fibers that contain at least 65% synthetic materials. Gans sublimation inks produce transfers that offer good resistance to the effects of light, perspiration, and laundering. When first printed onto paper, sublimation inks appear to be weaker and duller than standard inks, however when transferred onto suitable substrates, the dyes develop their true color strength and brilliance.

Gans sublimation inks may also be transferred to metal, wood or ceramic and many other materials where a Sublimation suitable coating has been applied.

Gans Litho Sublimation inks (Pyroscript)<sup>1</sup> are designed to be printed on offset lithographic presses. Pyroscript<sup>1</sup> inks come in 1, 2, 8, and 13 kilo containers.

Gans Screen Sublimation inks (Pyroscreen)<sup>2</sup> are applied using flat-bed screen printing equipment. Pyroscreen<sup>2</sup> is available in both solvent and water-based formulations. Pyroscreen solvent-based inks come in 3, 15 and 200 kilo containers. Pyroscreen water-based inks come in 4, 15, 120 and 200 kilo containers.

Gans Flexo Sublimation Inks (Pyroflexo)<sup>3</sup> provide the speed and economy only achievable through narrow-web printing. Gans Pyroflexo<sup>3</sup> Sublimation inks are typically used to decorate shoe strings, ribbons, elastic, and other narrow decorated fabrics. Pyroflexo inks come in 1, 2, 4 and 15 kilo containers.

Gans Gravure Sublimation Inks (Pyrogravure)<sup>4</sup> are water-based and are used when high-volume, wide-format, roll-to-roll printing and transferring are needed. Pyrogravure<sup>4</sup> inks come in 5, 120, and 200 kilo containers.

## 4-COLOR PROCESS SETS

Gans Ink manufactures custom, 4-color process sublimation ink sets for Litho, Screen and Flexo. The Cyan, Magenta, Yellow and Black hues of these sets are optimized for balanced photographic reproduction and bright vivid color. They will also produce the maximum optical range for PANTONE<sup>®</sup> equivalents,<sup>5</sup> while providing good resistance to fading from exposure to UV light.<sup>6</sup>

PANTONE<sup>®</sup> is owned by Pantone, Inc.



## VIBRANT BLENDING BASES

Gans Ink offers sublimation blending bases in four different systems: Litho, Screen, Flexo and water-based Gravure. This expanded series of 16 colorants and two fluorescents further increases color-matching options.

Vibrant Blending Base Extenders utilize state-of-the-industry vehicle (dye suspension) systems that provide homogeneous blending of solvent or water-based sublimation bases for litho, screen, flexo and gravure printing.

## NEW DEVELOPMENTS

New Products from the Gans Sublimation division include waterless sublimation inks for direct-imaging lithographic presses and invisible fluorescent sublimation inks for product authentication.



## NOTES

1. **Pyroscript** is Gans' brand name for lithographic sublimation inks.
2. **Pyroscreen** is Gans' brand name for silk-screen sublimation inks.
3. **Pyroflexo** is Gans' brand name for flexographic sublimation inks.
4. **Pyrogravure** is Gans' brand name for rotogravure sublimation inks.
5. Those colors achieved by combining screen tints in four-color process.
6. **UV or ultraviolet Light** is that part of the spectrum that makes dyes fade.



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