



Technical Data Sheet

MP7-0130

STARK BLACK COTTON

Non-Phthalate

Description: Stark Black Cotton is a non-phthalate, lead free, very dense, dark, high performance black that has excellent coverage on all garment colors. The low tack formula allows printing through finer mesh counts without the use of viscosity modifier. Stark Black Cotton performs well on both automatic and manual presses.

Substrate: 100% Cotton Garments

- Features:**
- Creamy, short body plastisol.
 - User Friendly, no viscosity modifiers necessary.
 - Formulated to be non-phthalate.
 - Fast Flash
 - Dense Black with great coverage
 - Good Bleed resistance
 - Dark, Dense, Black color

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|-----------------------------|--------------------|---------------------|
| Physical Properties: | Wet Ink Tack | Low |
| | Surface Appearance | Satin Finish |
| | Bleed Resistance | Good |
| | Opacity | High |
| | Gel point | 160 °F |
| | Flash Temp | 240°F to 260°F |
| | Fusion Temp | 320° F |
| | Squeegee Blade | 70° - 80° durometer |
| | Mesh Count | 86 – 236 mc in |

Performance: Print Stark Black Cotton straight from the container through mesh ranging from 86 to 236 mc without modifications of the viscosity. Use finer mesh counts for softest hand and good opacity. Stir ink before use.

Storage and Handling: 65°F to 95°F avoid direct sunlight. **Never exceed temperatures above 95°F during storage.**



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Recommendations: Stir plastisol ink before printing. Any modifiers and additives should be mixed in clean containers using clean mixer blades and ink knives. Any contamination from other ink sources could make the ink test positive for restricted phthalates. Do not dry clean, iron or bleach the printed image.

Perform fusion tests before production. Failure to cure ink properly can result in poor wash fastness, inferior adhesion, and unacceptable durability.

Adjust flash cure temperature and dwell time so ink is just dry to touch. Avoid excessive flash temperatures. If surface is hot and tacky, the ink film has been over flashed. Reduce temperature or time to prevent an inter-coat adhesion problem.

Curing is a time and temperature process, a lower oven temperature setting with a slower belt speed while maintaining recommended ink cure temperature is always best to protect fabric and reduce energy consumption.

Stark Black Cotton can be cured at 320°F. Running at the higher temperatures and/or longer dwell times maybe required to achieve proper cure on jobs that contain cotton, high ink deposits or heavy weight garments

Monarch Color does not knowingly add plasticizers containing the phthalates listed and outlined in California Bill 1108, CPSC HR-4040 and Oeko-tex Standard 100. The plasticizers identified may include di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP) benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DnOP), (DIBP), Di-iso-butyl, and (DMP) Dimethylphthalate, including esters of ortho-phthalic acid and are not direct ingredients in the manufacture of Monarch plastisol direct to fabric screen printing inks. Monarch does not test the final product for amounts of the above mentioned phthalate plasticizers and esters and advises users to conduct testing for their intended use.

(Revised 3/29/19)