

TRIANGLE®

MSS

ECO Solvent pigmented Ink

Technical Data Sheet

For more information or for the Triangle sales person in your area, please contact:

INX International Ink Co.
Co. 2125 Williams Street
San Leandro, CA 94577
tel: +1 510.895.8001
toll free: 800.895.8001
fax: +1 510.895.8080
info@INXdigital.com

Website:
www.triangleINX.com
www.greeninx.com

MSS

TRIANGLE® MSS ink is a premium ECO Solvent pigmented inkjet ink specifically formulated for use in the Mimaki® JV33™, JV34™, and CJV30™ printer series using Mimaki® SS21 inks.

Triangle's MSS series vinyl-based ECO solvent inks are optimized for high pigment density and wide color gamut. They are used on a broad range of flexible display graphics media. These inks are intended for jetting through piezo DOD print heads at ambient temperatures. These formulations boast:

- ▼ Compatible color gamut with Mimaki® SS21 inks
- ▼ Chemically compatible with Mimaki® SS21 inks
- ▼ No flushing or reprofiling required if converting from Mimaki® SS21 inks
- ▼ Low order
- ▼ Fast dry times
- ▼ Broader range of compatibility with low-cost SAV and vinyl banner media

Packaging



- ▼ 2000ml ECO Bulk bag-in-box cartridge, 1000ml ECO Bulk bag-in-box cartridge (select markets only), 440ml cartridge with SS21-emulating chip and 1-Liter bottle



Recommended Flush

TRIANGLE® ECO Flush – Eco solvent-based flushing liquid suitable for wiping around the print head, capping station and wiper as well as to flush the ink train.

Outdoor Durability

MSS inks are designed for outdoor use and, with a suitable substrate and correct ink application, should withstand 1-2 year exposure. Laboratory tests passed the 2-year outdoor durability criteria (delta E of <10 using accelerated testing equipment).

Printing Room Temperature

Should be between 20°C - 25°C (68°F - 77°F).

Printing Room Humidity

Should be between 40% and 75% relative humidity.

Temperature Exposure and Jetting

Inks were optimized to jet in equipment operating at 25°C. Changes in ambient temperature and controlled temperature settings affect the viscosity of the ink and, therefore, the accuracy of the drop formation and dot placement. Prolonged exposure to temperatures above 55°C should be avoided as long-term exposure to high temperatures can induce pigment agglomeration.

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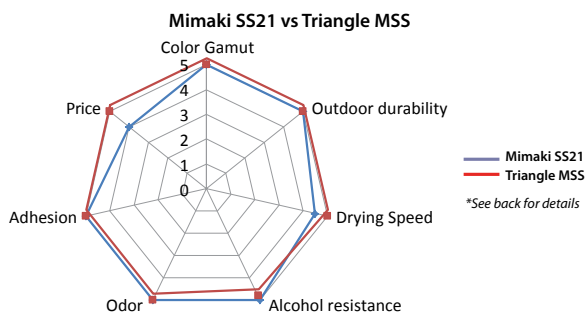
ECO Solvent pigmented Ink

Physical Properties

Physical Properties	Temperature	Range
Viscosity at 20 rpm (cps)	25°C	3.9 - 4.4
Surface Tension (dynes/cm)	25°C	31.0 - 32.0
Specific Gravity (g/ml)	25°C	1.02 - 1.05

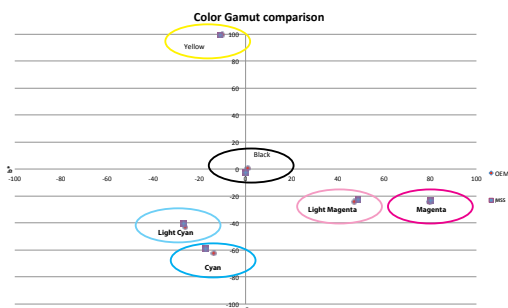
Property Gamut

The spider chart below demonstrates the properties of the TRIANGLE® MSS ink series in comparison to the Mimaki SS21 ink for the Mimaki JV33, JV34 and CJV30 series printers.



Color Density

TRIANGLE® MSS inks were optimized for extremely high pigment density as seen in the density chart below.



Adhesion

MSS inks are formulated to achieve optimum adhesion on commonly used vinyl substrates.

Compatible Materials

Materials which can be kept in long-term contact with these inks include: stainless steel, PTFE, EDPM, PP, LDPE and HDPE

Incompatible Materials

Materials that are not recommended for long-term contact with these inks include: butyl rubber, PU-rubbers and neoprene.

Incompatible Solutions

MSS is NOT compatible when exposed to water or water-based liquids, including high-humidity conditions.

Ink Storage and Shelf Life

Should be between 15°C - 30°C (59°F - 86°F). Storing this product outside the recommended storage conditions can cause irreversible damage. When stored properly, inks have a 15-month shelf life. Allow 8 hours for inks and substrates to acclimate in the printing room before use.

Pack Size Description

2000ml ECO Bulk bag-in-box cartridge, 1000ml ECO Bulk bag-in-box cartridge (select markets only), 440ml cartridge with SS21-emulating chip and 1-Liter bottle.

*Conditions apply. This information has been carefully studied from experience gained in the laboratory and under commercial situations; it is subject to change without notice. All sales are subject to our standard terms and conditions of sale. Since applications vary tremendously, the user assumes the obligation to test this product in their specific situation to determine its suitability and assumes all risk and liability related to such use. INX International Ink Co. makes no warranty, express or implied, for the use of the product for any particular application. In no event shall INX International Ink Co. be liable for damages in excess of the original cost of the product nor shall INX International Ink Co. be liable for any special or consequential damages. * Coverage was calculated using actual figures obtained from a print shop. The Mimaki® UJF 3042™ trademark is owned by Mimaki Engineering Co., Ltd. INX Digital is not affiliated or related to Mimaki Engineering Co. Ltd. in any way.

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