



TECHNICAL DATA SHEET

TDS DYE BASED INK

PRODUCT DESCRIPTION

Type:

This product is water based inkjet ink.
Dye used is mixture of organic dyes.

Features and Benefits:

This ink is used for Ricoh print heads for types: Gen 4, Gen 4L and Gen 5. This ink gives good optical density on the emulsion.

Recommended Use:

For use in Inkjet machine for Screen Engraving application.
Use safety gloves while handling Ink.

Substrate:

To be applied on screen coated with photo emulsion.

PRODUCT SERIES

Packaging size: 1 or 10 Kg pack

Color: Black Color

Dye content: less than 20% on dry basis

Specific gravity: 1.09 to 1.20 g/cc³

Viscosity: 7 to 9 cP at 25 deg C

(Measured by Brookfield viscometer)

Surface tension: 29 to 35 mN/m at 25 deg C
(Measured by Fischer Surface Tensiometer)

APPLICATION DATA

These inks are applied via Piezo Printhead on the coated screen (Coating of Photo Emulsion). After printing these screens are exposed under UV light. During printing the room temperature is suggested to be kept about 25 deg C with relative humidity of about 60% (non-condensing).

After printing and exposing of the screen under the UV light, put the frame in the water bath with the printed side facing down for about 5-10 minutes. This helps in swelling the pigment.

Then with a wet (water dripping) sponge, using a light hand pressure (light pressure) wipe the printed surface to remove the inks. Now the photo-emulsion can be removed from the unexposed area with water shower easily.

P.S.: The exposure time of the frame under the UV light depends on the photo emulsion used for coating and the lamp used for the UV light.

STORAGE

The product must be stored in accordance with national regulations. Keep the Bottles/Canister in a dry, cool, well ventilated space and away from sunlight. Bottles/Canister must be kept tightly closed. Handle with Care.
For other conditions of transportation please refer to SDS for this product.

HEALTH and SAFETY

Please observe the environmental and precautionary notices displayed on the container.

A Material Safety Data Sheet for the product has been issued.

Detailed information regarding health and safety risks and precautions for the use of this product is specified in the products Safety data sheet.

First-Aid measures, refer to Section 4.

Handling and Storage refer to Section 7.

Transport information, refer to section 14.

Regulatory information, refer to section 15.

IMPORTANT NOTE The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk. While we endeavour to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the sub-strate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.