

Technical information

Screen Inks



Micro TEX - TAQ

High Opacity, Eco-Friendly



Screen Inks for Textiles

Substrates ::

Water based ready to use textile inks for cotton, cotton blends, linen

Application

Micro TEX -TAQ is the range of water based textile inks with high opacity to print onto both dark and light fabrics made of cotton, cotton blends and linen

Characteristics

- Excellent crock resistance and wash fastness
- Soft feeling and smooth print finish
- Brilliant colours with extra opacity
- Lead free - suitable for children's garments
- Excellent screen stability - no chocking / clogging of screen
- Based on **eco - friendly** resin system

Printing Conditions

- Screen mesh - recommended 40 to 300 mesh/inch (18 to 120 mesh/cm) or finer mesh depending on the type of job. For heat transfer, 90 to 150 mesh per inch (35 to 60 mesh per cm) gives the best result
- Squeeze - soft or medium hard polyurethane squeeze
- Stencil - water resistant stencil materials are suitable

Curing Procedure

MicroTEX -TAQ inks can be cured at 150-160°C for 2 to 3 minutes to achieve full wash fastness.

Flash curing : The curing time required for flash curing depends upon the type and wavelength of the source and its distance from the print

The curing time also depends upon other factors such as fabric, ink colour, thickness of the ink film and the area of the print, etc.

Range

Micro TEX-TAQ Matching System : Almost any shade can be matched by mixing the selective inks of the matching system which comprises of the basic shades as follows :

Match Light Yellow	TAQ - 101	Match Violet	TAQ - 141
Match Mid Yellow	TAQ - 102	Match Ultra Blue	TAQ - 151
Match Deep Orange	TAQ - 111	Match Deep Blue	TAQ - 152
Match Scarlet Red	TAQ - 121	Match Green	TAQ - 161
Match Carmine Red	TAQ - 122	Match Tinting White	TAQ - 171
Match Magenta	TAQ - 131	Match Tinting Black	TAQ - 181
Mixing Clear Base	TAQ - 191	Mixing Extender Base	TAQ - 192
Opaque White	TAQ - 271	Brilliant White	TAQ - 272
		Dense Black	TAQ - 281

Process Colours :

Cyan	TAQ - 401
Magenta	TAQ - 402
Yellow	TAQ - 403
Black	TAQ - 404

By adding Extender Base TAQ - 192, the ink density can be reduced. The ink density can be increased by adding ink concentrates for the process colours in required proportion or by using a coarser mesh

Metallic Clear Base TAQ - 195

Fluorescent Shades :

Lemon Yellow	TAQ - 501
Golden Yellow	TAQ - 502
Orange	TAQ - 511
Red	TAQ - 521
Magenta	TAQ - 531
Green	TAQ - 561

Auxiliaries

TAQ Thin Retarder TAQ-901: can be added 2 to 5% to make ink slow dry if required in hot climatic condition. Micro TEX - TAQ inks are water reducible

Gel Tack Retarder TAQ - 902 can be added 5 to 10 % to make the ink Slow drying to prevent screen clogging

Catalyst TAQ - 601 can be added to enhance the air- drying time as well as fastness of ink on synthetic fabrics with a pot- life of 6-8 hours of the mixture of ink and catalyst

Thickener TAQ - 904 : Can be added up to 0.5 to 1% to increase the viscosity of the ink

Softening Agent TAQ - 905 : Can be added up to 2-5 % to making the print silky and Soft - hand feel

To improve the crock resistance, Clear Base TAQ - 191 can be added up to 5-10%

Important Note:

- It must be ensured that the entire thickness of the ink film is given enough time to reach the cure temperature to achieve the desired resistance properties
- The cure schedule must be evaluated by testing the print for the desired wash schedule
- Users should satisfy themselves for the compatibility of Micro TEX - TAQ inks with specific fabrics and the desired resistance properties before commencing production run
- Users should always test for curing, adhesion, crocking, wash-ability and other requirements before commencing production run
- Prints may be ironed from the back of the fabric at cool setting, with a cloth over the printed area. Prints will not resist dry-cleaning and garments should be marked to this effect
- Due to variation in the substrates and the ink film - thickness, slight colour variation from the actual ink shade is unavoidable

Material Safety Data Sheet is available on request

Note : The Technical information sheet reflects the current state of our knowledge. This information is compiled based upon field experience and extensive laboratory testing. However, customers are requested to satisfy themselves that the products meet their requirements in all respects before starting a print run. Since the printing conditions are not under our control, no guarantee can be given for their performance.