



The printing of textiles has been estimated

160 billion \$

Digital textile printing market @2017

1.5 billion \$

Potentially reaching @2022

3.9 billion \$

SULTAN EYE®

SULTAN INKS®

SULTAN OF DIGITAL PRINTING



Sultan DIGI INK

- ▶ Reactive inks are developed for use in common print technologies, using Kyocera KJ4B printheads and Konica Minolta Printheads.
- ▶ Trouble-free printing without nozzle clogging provides minimal need for print head maintenance
- ▶ Reproducible and consistent print results on cotton, viscose, silk and wool
- ▶ High color strength requires less ink to achieve desired depth of color.
- ▶ High colour yield, brightness and brilliancy. When used with a recommended system, Sultan Digi INK® R series deliver excellent print quality, outstanding productivity and reliability.
- ▶ Good fastness properties
- ▶ Meeting ecological requirements. GOTS Certificated.
- ▶ Colours; ink range contains eight high density color for achieving deep and very deep shades.CMYK (Cyan, Magenta, Yellow Black) RGOB (Red, Green, Orange, Blue)
- ▶ Acid and Disperse inks developments are under progress to be promoted in 2019.

| | Light | Washing | Water | Perspiration | | Crocking | |
|----------------------|-------------|-------------|-------------|--------------|--------|-------------|-----|
| | ISO 105 B02 | ISO 105 C06 | ISO 105 E01 | ISO 105 E04 | | ISO 105 x12 | |
| | | | | Acid | Alkali | Dry | Wet |
| Sultan Ink Black R | 5-6 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Sultan Ink Cyan R | 6 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Sultan Ink Magenta R | 6 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Sultan Ink Yellow R | 6-7 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 |
| Sultan Ink Orange R | 5-6 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Sultan Ink Red R | 6 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |
| Sultan Ink Blue R | 6-7 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 3-4 |
| Sultan Ink Grey R | 6 | 4-5 | 4-5 | 4-5 | 4-5 | 4-5 | 4 |

SULTAN EYE®

Sultan eye is an ink acceptor polymer designed to have optimum performance in Digital Printing Sultan eye is synthesized through CRP (Controlled Radical Polymerization) polymerization process of monomers containing suitable functional groups in order to meet ideal molecular weight and polydispersibility

Properties of SULTAN EYE

- ▶ 100% organic
- ▶ Biologically degradable synthetic polymer design
- ▶ Swelling time is an important limiting factor for natural thickeners whereas Sultan Eye does not need swelling time
- ▶ Product viscosity is ideal for digital printing preparation since it's selectively selected molecular weight(mw). There is no need to adjust viscosity again
- ▶ Sultan Eye characteristic dn/dc value is designed to obtain optimum color yield
- ▶ Compatible with alkaline, acid,buffering agents and urea which are used in textile printing
- ▶ Workable in the range of pH 3-12
- ▶ Has no Amine content. Thus prevents NOx structures formation
- ▶ No viscosity change under long storage conditions
- ▶ Dry film has no dusting problem. Thus problems such as fuzziness, breakage etc are not encountered
- ▶ It self and in paste form coagulation and agglomeration are not encountered

SULTAN EYE Product Range

- ▶ **SULTAN EYE R17** Ink Acceptor Polymer for Digital Printing by Reactive Inks
- ▶ **SULTAN EYE PA** Ink Acceptor Polymer for Digital Printing by Acid Inks
- ▶ **SULTAN EYE DP** Ink Acceptor Polymer for Digital Printing by Dispers Inks

