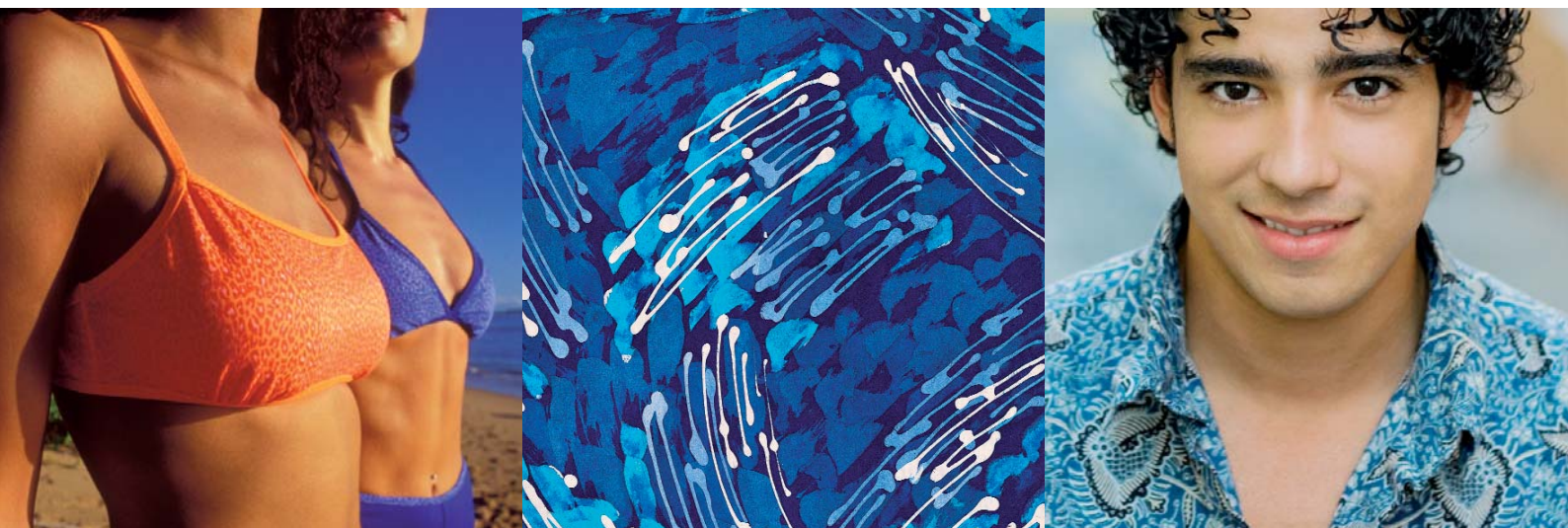


Textile Effects

LANASET[®] RAC acid inks

For ink jet textile printing with the Reggiani DReAM industrial machine



LANASET® RAC acid inks

Process

Textile preparation

Huntsman Textile Effects has developed an optimized recipe for fabric preparation to obtain higher color yield and sharpness with water-based LANASET® RAC inks for the DReAM. These inks are suitable for silk, polyamide and wool fabrics.

The following is a guideline recipe, usually applied by padding:

| | | |
|--------------|-------------|-----------------------|
| Silk | 100–150 g/l | urea |
| | 150–250 g/l | THERMACOL® MP |
| | 20 g/l | ammonium sulfate |
| | | pick-up 70–80 % |
| PA/WO | 100–150 g/l | urea |
| | 200–300 g/l | THERMACOL® MP |
| | 10–20 g/l | ammonium tartrate 25% |
| | | pick-up 70–80 % |

Fixation

For silk, polyamide and wool: steam at 102 °C/216 °F for 20–30 min

Washing off

Silk rinse cold
soap at 30°C/85°F with 2g/l TINEGAL® W
soap at 40°C/104°F with 2g/l TINEGAL® W
soap at 50°C/122°F with 2g/l TINEGAL® W
rinse warm
rinse cold

Polyamide rinse cold
soap at 30°C/85°F with 2g/l TINEGAL® W
soap at 40°C/104°F with 2g/l TINEGAL® W
soap at 50°C/122°F with 2g/l TINEGAL® W
rinse warm
rinse cold

Aftertreatment

Silk 2–5 g/l ALBAFIX® ECO at pH 6–7 for 20–30 min
at 30–50°C/85–122°F

Polyamide 1–3 g/l ERIONAL® PAS at pH 4–5 for 15–20 min
at 60–70°C/140–158°F

Finishing

LANASET® RAC inks are fully compatible with all Huntsman finishing products (e.g. flame retardants, oil/water and stain repellents, easy care and UV protection).

LANASET® RAC acid inks

Ink range

Wider color space

LANASET Yellow RAC-100

LANASET Orange RAC-150

LANASET Red RAC-300

LANASET Blue RAC-400

LANASET Turquoise RAC-500

LANASET Black RAC-700

Additional color

LANASET Gray RAC-600

Fastness properties

| LANASET | Silk | | | | PA 66 | | | | Chlorinated wool | | | | |
|--------------------------|---------------------|--|-----|-----|---------------------|--|------|----|---------------------------|---------------------|--|-----|-----|
| | Xenon lamp 240 h | Washing, 50 °C/122 °F, ISO 105-C06 | | | Xenon lamp 240 h | Washing, 50 °C/122 °F, ISO 105-C06 | | | Chlorine water 50 mg/l | Xenon lamp 240 h | Washing, 50 °C/122 °F, ISO 105-C06 | | |
| | | 100% | Ch | S | | CO | 100% | Ch | | | PA | CO | Ch |
| Yellow RAC-100 | 7 | 4-5 | 4-5 | 4-5 | 7 | 5 | 5 | 5 | 4-5 | 7 | 4-5 | 4-5 | 4-5 |
| Orange RAC-150 | 4-5 | 4-5 | 4-5 | 4-5 | 6 | 4-5 | 4-5 | 5 | 3 | 5 | 4-5 | 4-5 | 4-5 |
| Red RAC-300 | 2-3 | 4-5 | 4-5 | 4-5 | 4 | 4-5 | 5 | 5 | 4-5 | 3-4 | 4-5 | 4-5 | 4 |
| Blue RAC-400 | 6-7 | 4-5 | 3 | 4-5 | 6-7 | 4-5 | 4 | 5 | 4-5 | 6 | 4-5 | 4 | 4-5 |
| Turquoise RAC-500 | 7 | 4-5 | 4-5 | 3-4 | 2-3 | 4-5 | 5 | 4 | 1-2 | 7 | 4-5 | 4-5 | 4-5 |
| Gray RAC-600 | 6 | 4-5 | 4-5 | 4-5 | 7 | 4-5 | 4 | 5 | 3 | 6 | 4-5 | 4-5 | 4-5 |
| Black RAC-700 | 6-7 | 4-5 | 4 | 4-5 | 7-8 | 4-5 | 4 | 5 | 3-4 | 7 | 4-5 | 4-5 | 4-5 |

Reggiani printing machine

DReAM machine

DReAM

**the best industrial
ink jet textile
printing machine**

DReAM is a roll-to-roll/roll-to-folder industrial textile digital printing machine, suitable for a wide range of media (knitted, woven, non-woven, carpet, leather and other). The machine is fitted with a rubber blanket and an on-line dryer and features different entry/exit configurations. It is equipped with rugged HP-Scitex printheads and with special proprietary Aprion piezoelectric drop-on-demand technology that ensure high reliability, productivity and output.

The DReAM machine is particularly suitable for short/medium runs as well as sampling.

Originally designed for fashion and household fabrics, it also finds successful application in flags and banners, fashion accessories, home furniture and automotives.

The Reggiani Macchine's proprietary combi option adds an on-line flat screen for special effects like glittering, metallic effects, chemical resins, etc.



Main advantages

- High productivity (up to 235 sqm/h)
- Low ink consumption
- Quick time-to-market
- Wide range of media (knitted, woven, non-woven, carpet, leather and other)
- Wide range of inks (acid, reactive, direct disperse, sublimatic disperse)
- Wide range of printing width (1800, 2400, 3400 mm)
- High resolution (600 × 600 dpi)
- High reliability (embedded printheads maintenance system, unlimited printheads lifetime)
- Different entry/exit configurations
- Adjustable printheads to media distance



Region Europe

Huntsman Textile Effects (Germany) GmbH
Rehlinger Straße 1
86462 Langweid a. Lech, Germany
Telephone +49 8230 41-0
Fax +49 8230 41-370
infotexeuropa@huntsman.com

Region Americas

Huntsman International LLC
Textile Effects
4050 Premier Drive
High Point, NC 27265, USA
Telephone +1 800 822 1736
Fax +1 336 801 2808
infotexamericas@huntsman.com

Region Asia

Huntsman (Guangdong) Ltd.
Textile Effects
Flying Geese Mountain Industrial Park
Shilou Town, Panyu District, Guangzhou
511447, PR China
Telephone +86 20 8484 5100
Fax +86 20 8484 5222
infotexasia@huntsman.com

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