

Textile Effects

LANASET® SI HS acid inks

For ink jet printing on silk, polyamide and wool fabrics



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

LANASET® SI HS acid inks

Ink range

Printing range

LANASET Yellow SI HS-5100

LANASET Orange SI HS-5150

LANASET Red SI HS-5200

LANASET Red SI HS-5300

LANASET Blue SI HS-5400

LANASET Turquoise SI HS-5500

LANASET Gray SI HS-5600

LANASET Black SI HS-5700

**CLEANJET CS
INK DILUENT AR**

cleaning solution
ink diluent to obtain light shades

LANASET® SI HS acid inks

Performance

Fastness properties

LANASET	Silk						
	Xenon lamp 240 h	Washing, 50 °C/122 °F, ISO 105-C06			Alkaline perspiration ISO 105-E04		
	100%	Ch	S	CO	Ch	S	CO
Yellow SI HS-5100	6-7	4-5	4-5	4-5	4-5	4-5	4
Orange SI HS-5150	4	4-5	4-5	4-5	4-5	4-5	4
Red SI HS-5200	3-4	4-5	3-4	4	4-5	4	4
Red SI HS-5300	3-4	4-5	3	4-5	4-5	4-5	4
Blue SI HS-5400	5-6	4-5	3	4-5	4-5	3	4-5
Turquoise SI HS-5500	5-6	4-5	4-5	3-4	4-5	4-5	4-5
Gray SI HS-5600	5	4-5	4	4-5	4-5	4-5	4-5
Black SI HS-5700	6	4-5	4	4-5	4-5	4-5	4-5

LANASET	Polyamide							
	Xenon lamp 240 h	Washing, 50 °C/122 °F, ISO 105-C06			Alkaline perspiration ISO 105-E04			Chlorine water 50 mg/l
	100%	Ch	PA	CO	Ch	PA	CO	Ch
Yellow SI HS-5100	7	4-5	4-5	4-5	4-5	4-5	4	4-5
Orange SI HS-5150	5	4-5	4-5	4-5	4-5	4-5	4	3
Red SI HS-5200	4	4-5	3-4	4	4-5	4	4	4-5
Red SI HS-5300	4	4-5	3	4-5	4-5	4-5	4	4-5
Blue SI HS-5400	5-6	4-5	3	4-5	4-5	3	4-5	4
Turquoise SI HS-5500	6	4-5	4-5	3-4	4-5	4-5	4-5	1-2
Gray SI HS-5600	5	4-5	4	4-5	4-5	4-5	4-5	3-4
Black SI HS-5700	6	4-5	4	4-5	4-5	4-5	4-5	4-5

LANASET	Chlorinated wool						
	Xenon lamp 240 h	Washing, 50 °C/122 °F, ISO 105-C06			Alkaline perspiration ISO 105-E04		
		100%	Ch	WO	CO	Ch	WO
Yellow SI HS-5100	6	4-5	4-5	4-5	4-5	4	4
Orange SI HS-5150	4-5	4-5	4-5	4-5	4-5	4-5	4
Red SI HS-5200	3-4	4-5	4-5	3-4	4-5	4	3-4
Red SI HS-5300	4	4-5	4-5	4	4-5	4-5	3-4
Blue SI HS-5400	5-6	4-5	4	4-5	4-5	4	3-4
Turquoise SI HS-5500	6	4-5	4-5	3-4	4-5	4-5	3-4
Gray SI HS-5600	5-6	4-5	4-5	4-5	4-5	4-5	4-5
Black SI HS-5700	6	4-5	4-5	4-5	4-5	4-5	3-4

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