Coralene Blue HP-GS

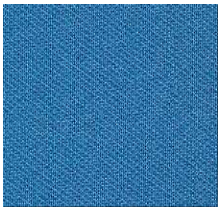
A greenish blue disperse dye with excellent wet fastness properties suitable for bright shades; has good build up in continuous dyeing and is recommended for polyester / cotton blends.

Suitability / Application:

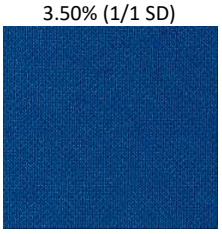
Substrate:		
Fiber / Yarn	-	●
Sewing threads	-	●
Piece dyeing	-	●
Micro fibers / fabric	-	●
P/C Blends - Exhaust, 2 bath	-	●
P/C Blends - Continuous	-	●
P/Elastane Blends	-	●
P/W Blends	-	○
Process:		
Exhaust dyeing:		
Low temperature with carrier	-	○
HT, 135^{0}C	-	●
HT, Alkaline dyeing	-	○
Continuous dyeing	-	●
Printing	-	●
Development method in printing:		
Pressure Steaming	-	●
HT Loop Steaming	-	●
Discharge printing	-	◨

Exhaust Dyeing

1.160%



3.50% (1/1 SD)



5.25%

(Dyeing at 135^{0}C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

General properties:

C.T.Z.:	-	110 - 135^{0}C
Leveling at 135^{0}C:	-	Moderate
Migration:	-	Moderate
Recommended pH with buffer system :	-	4.0
Recommended auxiliary:	-	Levocol OA, 3 - 4 g/l
Dischargeability:(Zinc sulphoxylate formaldehyde)	-	Good
Sensitivity to metal (Fe)	-	Low
Stripping method	-	Reductive
Saturation value in HTHP exhaust dyeing	-	5.50%

(On 80D/36F polyester knit fabric)

Continuous dyeing

40.0 g/l on P/C cloth

Shade change under artificial light:

D 65	Inc A	F 11 (TL 84)	F02 (CWF)	UL 35
Control	Tr R	R	R	R

Cross staining on other components of blends in one bath dyeing:

Substrate	CA	PAN	PA	Cellulosic	Wool
Staining in dyebath	High	Moderate	High	Low	High
Staining after R.C.	High	Moderate	High	Low	Moderate

(Abbreviation: ● - Suitable, ○ - Not Suitable, ◒ - Limited suitability, ◨ - Not Recommended, R - Redder, G - Greener, Y - Yellower, B - Bluer)

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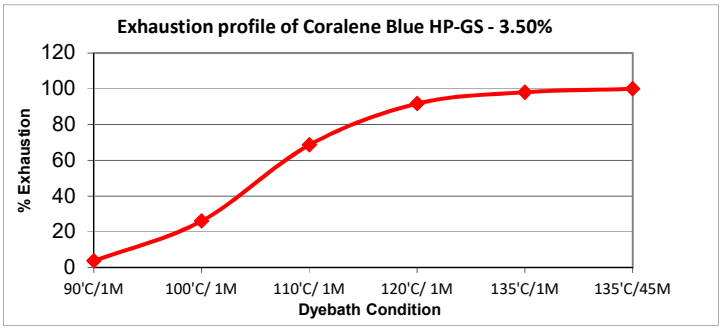
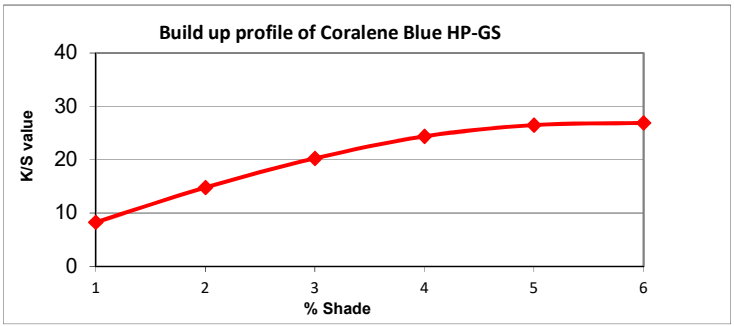
Product Performance:

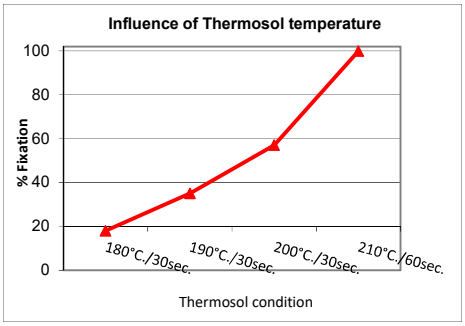


(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)

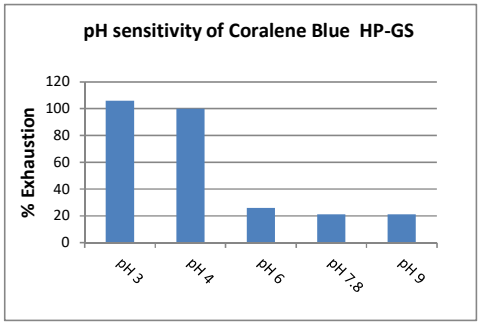


(Exhaust dyeing different depth at 135^{0}C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

Thermosol Application: (Pad - Dry - Thermosol)
40.0 gpl Coralene Blue HP-GS on P/C (67/33) fabric



pH Sensitivity:
3.50% Coralene Blue HP-GS in exhaust dyeing



Fastness Properties: (Tested on 80D/36F 100% PET Knit, dyed by exhaust method)

- Light fastness (ISO 105 B02)
- Light fastness (AATCC 16, Option 3, 20 AFU)

Shade change (Rating)		
1/6 SD	**1/3 SD**	**1/1 SD**
5	5-6	4-5
4.0	4.0	4.5

- Sublimation fastness 1/1 SD (ISO 105 P01)

Temperature	**180^{0}C**	**190^{0}C**	**200^{0}C**
C.O.S.	4-5	4-5	4-5
Staining on PET	4-5	4-5	4

Coralene Blue HP-GS

Fastness Properties: (Tested at 3.50% depth, on 80D/36F 100% PET Knit dyed by exhaust method and post set at 180^{0}C for 30 Sec)

		Staining on						
		C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Perspiration Light fastness (ISO 105 B07)	Acid	4-5						
● Perspiration Light fastness (ISO 105 B07)	Alkaline	4-5						
● Wash fastness (ISO 105 C10 C, 60^{0}C)		4	4	4-5	4	4-5	4-5	4-5
● Wash fastness (ISO 105 C06, C2S,)		4	4	4-5	3-4	4	4-5	4-5
● Wash fastness (AATCC 61 Option 2A,49^{0}C)		4.0	4.0	4.0	3.5	4.0	4.5	4.5
● M&S C4A, 60^{0}C		4	4-5	4-5	4	4-5	4-5	4-5
● Adidas Wash fastness, 60^{0}C		4	3-4	4	3	4	4-5	4
● Dry cleaning fastness (ISO 105 D01)		4	4-5	4-5	4-5	4-5	4-5	4-5
● Water fastness (ISO 105 E01)		4-5	4	4-5	4	4-5	4-5	4-5
● Sea water fastness (ISO 105 E02)		4-5	4-5	4-5	4	4-5	4-5	4-5
● Chlorinated water fastness,(Adidas 5.06, 50 ppm)		4						
● Perspiration fastness (ISO 105 E04,Acid)		4-5	4	4-5	4	4-5	4-5	4-5
● Perspiration fastness (ISO 105 E04,Alkaline)		4-5	4	4-5	4	4-5	4-5	4-5
● Burnt gas fumes fastness (ISO 105 G02, 3 cycles)		4-5						
● Hypochlorite bleach fastness (ISO 105 N01)		4-5						
● Peroxide bleach fastness (ISO 105 N02)		4-5		4-5		4-5		
● Mercerization fastness (ISO 105 X04)		4-5		4-5				
● PVC migration (ISO 105 X10)		3-4	(Staining on PVC foil)					
● Crocking Fastness (ISO 105 X12, Dry/Wet)				4-5/4-5				
● Migration during storage (AATCC TM 163)		4.5	4.5	4.5	4.5	4.5	4.5	4.5
● Saliva fastness (DIN 53160)		5	(Staining on filter paper)					

Fastness Properties: (Tested at 6.30% depth, on 100% micro PET Knit (0.5 dpf) dyed by exhaust method and post set at 180^{0}C for 30 Sec)

	Staining on						
	C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Light fastness (ISO 105 B02)	4						
● Wash fastness (ISO 105 C06, C2S,)	4	4	4	3-4	4	4-5	4-5
● Wash fastness (AATCC 61 Option 2A,49^{0}C)	4.0	4.0	4.0	3.5	4.0	4.5	4.5
● Water fastness (ISO 105 E01)	4-5	4	4	4	4-5	4-5	4
● Crocking Fastness (ISO 105 X12, Dry/Wet)			4-5/4-5				

Fastness Properties: (Tested at 40.0 g/l depth, on P/C (67/33) blend twill fabric by continuos dyeing method and post set at 180^{0}C for 30 Sec)

	Staining on						
	C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Wash fastness (ISO 105 C06, C2S,)	4	4-5	4-5	4-5	4-5	4-5	4-5
● Wash fastness (AATCC 61 Option 2A,49^{0}C)	4.0	4.0	4.5	3.5	4.0	4.5	4.5
● Water fastness (ISO 105 E01)	4-5	4-5	4-5	4-5	4-5	4-5	4-5
● Crocking Fastness (ISO 105 X12, Dry/Wet)			4-5/4-5				

Note:

Disclaimer: This information is provided in good faith, to the best of our knowledge and without liabilities.

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