

Sodecron Lumi. Orange F-CR 100%

A fluorescent orange disperse dye suitable for exhaust dyeing applications on polyester

Suitability / Application:

Exhaust Dyeing
0.50 % (1/3 SD)

Substrate:

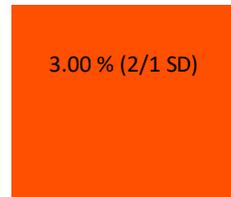
Fiber / Yarn	-	0
Sewing threads	-	●
Piece dyeing	-	●
Micro fibers / fabric	-	●
P/C Blends - Exhaust, 2 bath	-	■
P/C Blends - Continuous	-	■
P/Elastane Blends	-	●
P/W Blends	-	○



1.50 % (1/1 SD)



3.00 % (2/1 SD)



(Dyeing at 130°C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

Process:

Exhaust dyeing:

Low temperature with carrier	-	○
Carrier dyeing at 110°C	-	○
HT, 130°C	-	●
HT, Alkaline dyeing (buffered at pH 9.5)	-	○
Continuous dyeing	-	●
Printing	-	●
Development method in printing:		
Pressure Steaming	-	●
HT Loop Steaming	-	●
Discharge printing	-	0
Dischargeable ground	-	○
Discharge resistant illuminant	-	0

General properties:

C.T.Z.:	100 - 130°C
Leveling at 130°C:	Good
Migration:	Moderate
pH range for application :	4.0 - 5.0
Dischargeability:(Zinc sulphoxylate formaldehyde)	Low
Sensitivity to metal (Fe):	High
Stripping method:	-
Saturation value in HTHP exhaust dyeing: (On 80D/36F polyester knit fabric)	5.00%

Shade change under artificial light:

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

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

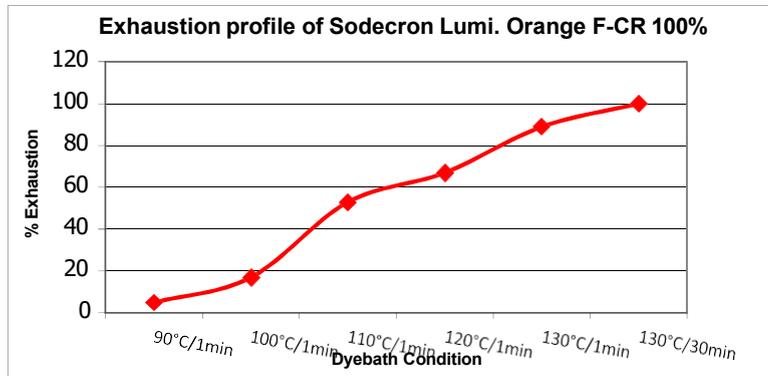
Substrate	CA	PAN	PA	Cellulosic	Wool
Staining in dyebath	High	Moderate	High	Low	High
Staining after R.C.	High	Moderate	High	Low	Moderate

(Abbreviation: ● - Suitable, ○ - Not Suitable, 0 - Limited suitability, ■ - Not Recommended, R - Redder,

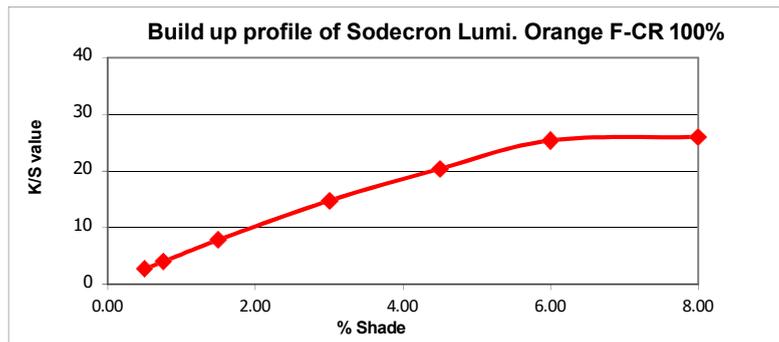
G - Greener, B - Bluer)

Sodecron Lumi. Orange F-CR 100%

Product Performance:



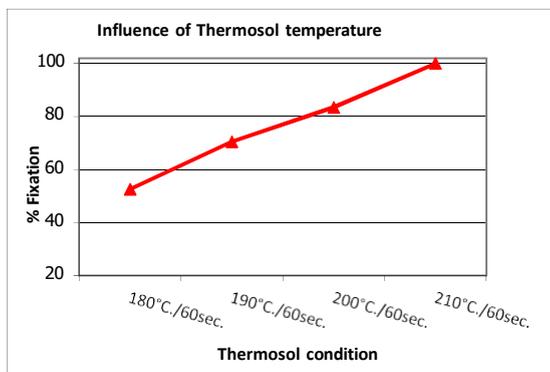
(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)



(Exhaust dyeing different depth at 130°C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

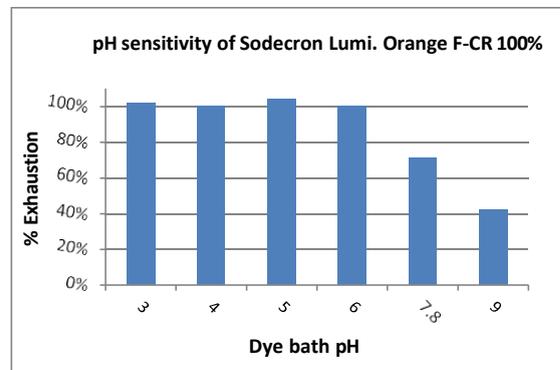
Thermosol Application:

15 gpl Sodecron Lumi. Orange F-CR 100% on P/C fabric



pH Sensitivity:

1.50 % Sodecron Lumi. Orange F-CR 100% 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)
- Sublimation fastness 1/1 SD (ISO 105 P01, 30 Sec)

Shade change (Rating)		
1/6 SD	1/3 SD	1/1 SD
3-4	3-4	3-4
3.5	3.5	4.0

Temperature	180°C	190°C	200°C
C.O.S.	4-5	4-5	4-5
Staining on PET	4-5	4	3-4

Sodecron Lumi. Orange F-CR 100%

Fastness Properties: (Tested at 1.50% depth, on 80D/36F 100% PET Knit dyed by exhaust method and post set at 180°C for 30 Sec)

		Staining on						
		C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Perspiration Light fastness (ISO 105 B07)	Acidic	4-5						
● Perspiration Light fastness (ISO 105 B07)	Alkaline	4-5						
● Wash fastness (ISO 105 C06, A2S,)		4	4	4-5	4	4-5	4-5	4-5
● Wash fastness (ISO 105 C06, C2S,)		4	3-4	4-5	3-4	4	4-5	4-5
● Wash fastness (ISO 105 C10 C, 60°C)		4	4	4-5	4	4-5	4-5	4-5
● Wash fastness (AATCC 61 Option 2A, 49°C)		4.0	3.5	4.0	3.0	4.5	4.5	4.5
● 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	4-5	4-5	4-5	4-5	4-5	4-5
● Sea water fastness (ISO 105 E02)		4-5	4-5	4-5	4-5	4-5	4-5	4-5
● Chlorinated water (ISO 105 E03)	20 ppm	4-5						
● Chlorinated water (ISO 105 E03)	50 ppm	4-5						
● Perspiration fastness (ISO 105 E04)	Acidic	4-5	4-5	4-5	4-5	4-5	4-5	4-5
● Perspiration fastness (ISO 105 E04)	Alkaline	4-5	4-5	4-5	4-5	4-5	4-5	4-5
● Hypochlorite bleach fastness (ISO 105 N01)		4-5						
● Peroxide bleach fastness (ISO 105 N02)		4-5		4-5		4-5		
● Crocking fastness (ISO 105 X12, Dry/Wet)				4-5/4-5				
● PVC migration (ISO 105 X10)		3-4	(Staining on PVC film)					
● Saliva fastness (DIN 53160)		5.0	(Staining on filter paper)					

Note:

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