

Sodecron Navy XF-CT

An economical navy disperse dye , that exhibits better fastness profile.

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, 130°C - ●

HT, Alkaline dyeing - ○

Continuous dyeing - ●

Printing - ●

Development method in printing:

Pressure Steaming - ●

HT Loop Steaming - ●

Discharge printing - ■

Exhaust Dyeing

0.313%



0.625% (1/1 SD)



1.25% (As Navy)



(Dyeing at 130°C for 45 min on polyester fabric at pH 4 adjusted with Levocol 43

General properties:

C.T.Z.: - 100 - 130°C

Leveling at 130°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 - 4.50%

(On 80D/36F polyester knit fabric)

Continuous dyeing
35 g/l on P/C cloth



(67/33 Blend)

Shade change under artificial light:

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

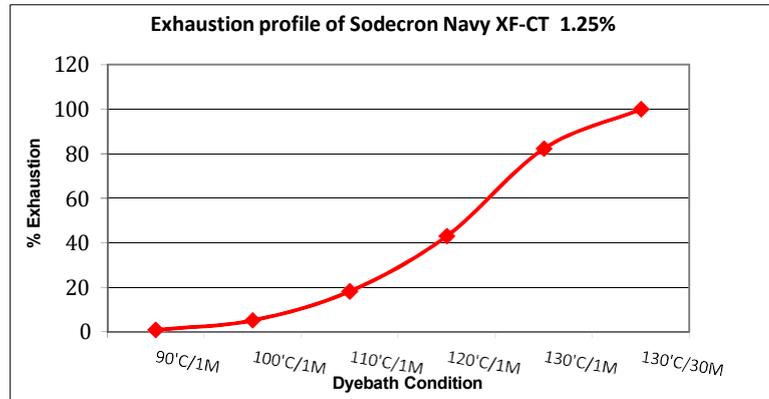
Cross staining on other components of blends in one bath dyeing:

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

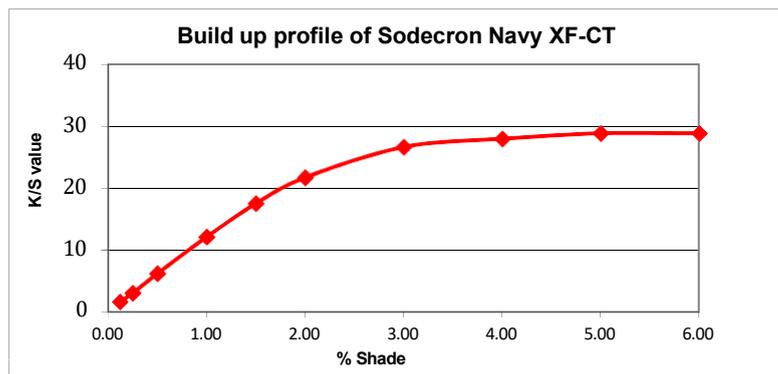
Y - Yellower, B - Bluer)

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Product Performance:



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



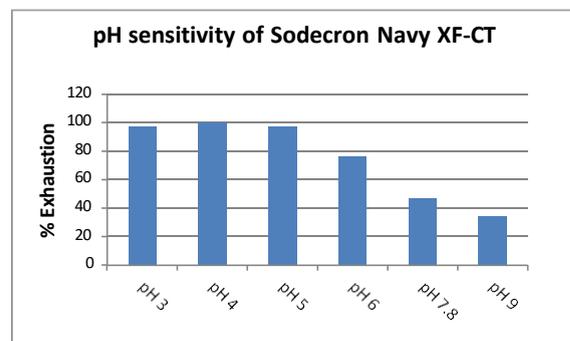
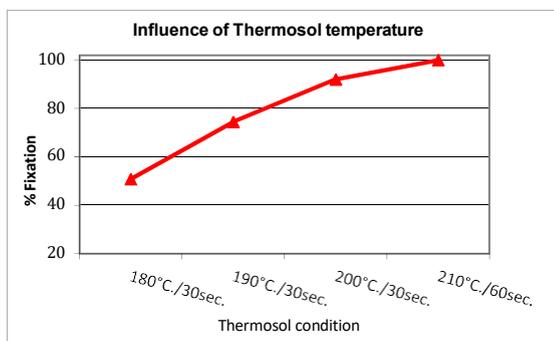
(Exhaust dyeing different depth at 130°C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

Thermosol Application: (Pad - Dry - Thermosol)

35.0 gpl Sodecron Navy XF-CT on P/C fabric

pH Sensitivity:

1.25% Sodecron Navy XF-CT 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 2/1 SD (ISO 105 P01)

Shade change (Rating)		
1/6 SD	1/3 SD	5.00%
		4-5
		4.0

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

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Fastness Properties: (Tested at 1.25% 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)	Acid	4-5						
● Perspiration Light fastness (ISO 105 B07)	Alkaline	4-5						
● Wash fastness (ISO 105 C10 C, 60°C)		4	4-5	4-5	4	4-5	4-5	4-5
● Wash fastness (ISO 105 C06, C2S,)		4	3-4	4-5	3	4	4-5	4-5
● Wash fastness (AATCC 61 Option 2A,49°C)		4.0	4.0	4.0	3.0	4.0	4.5	4.0
● M&S C4A, 60°C		4	4-5	4	3-4	4	4-5	4-5
● Adidas Wash fastness, 60°C		4	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	3-4	4	4-5	4-5
● Sea water fastness (ISO 105 E02)		4-5	4	4	3-4	4	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	4-5	4-5
● Perspiration fastness (ISO 105 E04,Alkaline)		4-5	3-4	4	3-4	4	4-5	4-5
● Burnt gas fumes fastness (ISO 105 G02, 3 cycles)		4						
● Hypochlorite bleach fastness (ISO 105 N01)		4						
● 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					
● Migration during storage (AATCC TM 163)		4.0	4.5	4.5	4.0	4.5	4.5	4.5
● Saliva fastness (DIN 53160)		5.0	(Staining on filter paper)					

Fastness Properties: (Tested at 5.00% depth, on 100% micro PET Knit (0.5 dpf) dyed by exhaust method and post set at 180°C for 30 Sec)

	Staining on						
	C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Light fastness (ISO 105 B02)	4-5						
● Wash fastness (ISO 105 C06, C2S,)	4	3	3-4	2-3	3-4	4	4
● Wash fastness (AATCC 61 Option 2A,49°C)	4.0	3.5	3.5	2.5	3.5	4.5	4.0
● Water fastness (ISO 105 E01)	4-5	3-4	4	3	3-4	4-5	4
● Crocking Fastness (ISO 105 X12, Dry/Wet)			4/3-4				

Fastness Properties: (Tested at 35.0 g/l depth, on P/C (67/33) blend twill fabric by continuous dyeing method and post set at 180°C for 30 Sec)

	Staining on						
	C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Wash fastness (ISO 105 C06, C2S,)	4	3	4	3-4	4	4-5	4
● Wash fastness (AATCC 61 Option 2A,49°C)	3.5	3.0	4.0	3.0	3.5	4.5	4.0
● Water fastness (ISO 105 E01)	4-5	4	4-5	3-4	4	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.