

## Sodecron Black XF-WN

High tinctorial Redder Black with good fastness properties, Good sublimation fastness.

### 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	-	●
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##### Development method in printing:

Pressure Steaming	-	□
HT Loop Steaming	-	●
Discharge printing	-	■

### Exhaust Dyeing

0.680%



1.375% (1/1 SD)



2.75% (A-Black)



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

### General properties:

C.T.Z.:	-	120 - 130°C
Leveling at 130°C:	-	Moderate
Migration:	-	Low
Recommended pH with buffer system :	-	4.0
Recommended auxiliary:	-	Levocol OA, 3 - 4 g/l
Dischargeability:(Zinc sulphoxylate formaldehyde)	-	Moderate
Sensitivity to metal (Fe)	-	Low
Stripping method	-	Reductive
Saturation value in HTHP exhaust dyeing (On 80D/36F polyester knit fabric)	-	5.00%

### Continuous dyeing

45 g/l on P/C cloth



### Shade change under artificial light:

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

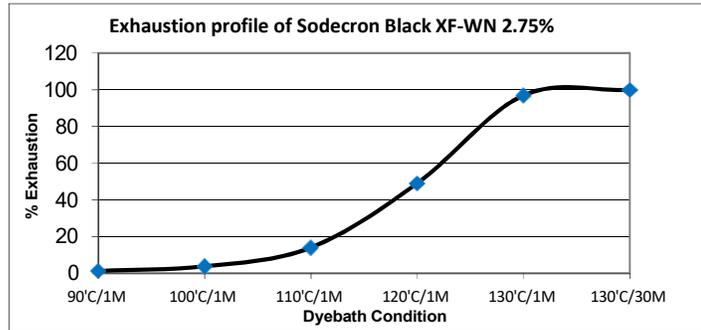
### Cross staining on other components of blends in one bath dyeing:

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

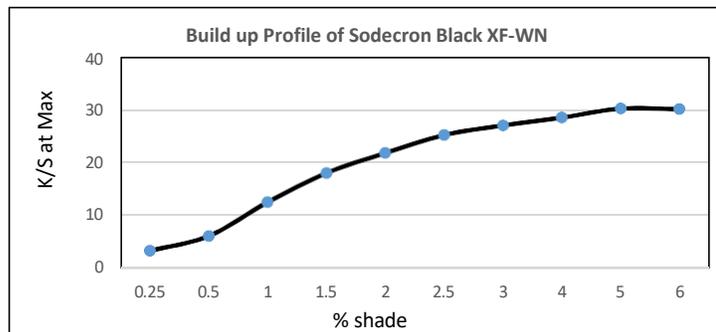
( Abbreviation: ● - Suitable, ○ - Not Suitable, ◐ - Limited suitability, ◑ - Not Recommended, R - Redder, G - Greener,  
Y - Yellower, B - Bluer)

## Sodecron Black XF-WN

### Product Performance:

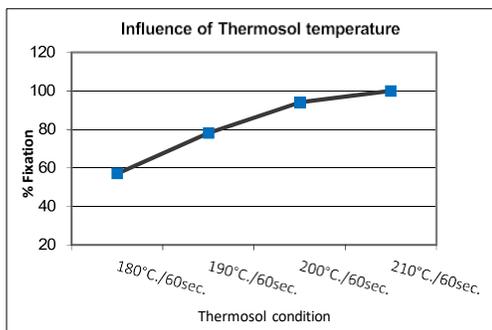


(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)

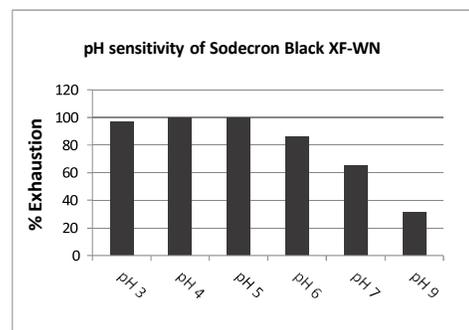


(Exhaust dyeing different depth at 135°C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

**Thermosol Application: (Pad - Dry - Thermosol)**  
45 gpl Sodecron Black XF-WN on P/C fabric



**pH Sensitivity:**  
2.75% Sodecron Black XF-WN 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	2/1 SD
5	4-5	5-6
4.0	3.5	4

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

## Sodecron Black XF-WN

**Fastness Properties:** ( Tested at 2.75% 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						
— Perspiration Light fastness (ISO 105 B07)	Alkaline	4						
— Wash fastness (ISO 105 C10 C, 60°C)		4	4	4-5	4-5	4-5	4-5	4-5
— Wash fastness (ISO 105 C06, C2S, )		4	3-4	4	3	3-4	4	4
— Wash fastness (AATCC 61 Option 2A,49°C, )		4.0	3.5	4	3.5	3.5	4.0	4.0
— M&S C4A, 60°C		4	4*	4	3-4	4	4	4
— Adidas Wash fastness, 60°C		4	3-4	4	3	3-4	4	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	4-5	4	4-5	4-5	4-5
— Chlorinated water fastness (ISO 105 E03, 50 ppm)		4						
— Perspiration fastness (ISO 105 E04,Acid)		4-5	4	4-5	4	4-5	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		
— PVC migration (ISO 105 X10)		3	(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)					

**Abbreviation:** \* - Stain on lyocell

**Fastness Properties:** (Tested at 5.0% depth, on 100% micro PET Knit (0.5 dpf) dyed by exhaust method and post set at

		Staining on						
		C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
— Light fastness (ISO 105 B02)		6						
— Wash fastness (ISO 105 C06, C2S, )		4	3-4	4	3	3-4	4	4
— Wash fastness (AATCC 61 Option 2A,49°C, )		4	3.5	3.5	3.5	3.5	4	4
— Wash fastness (ISO 105 C10 C, 60°C)		4	4	4-5	4	4-5	4-5	4-5
— Burnt gas fumes fastness (ISO 105 G02, 3 cycles)		4						

**Fastness Properties:** (Tested at 45 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	2-3	3-4	3	3-4	4	4
— Wash fastness (AATCC 61 Option 2A,49°C, )		4	3.5	4	3.5	4	4.5	4.5
— Water fastness ( ISO 105 E01)		4-5	3-4	4	3-4	4	4	4
— 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.