

Sodecron Yellow CN

A robust, high strength disperse dye with a brilliant lemon yellow hue. Suitable for producing bright orange, red and green shades.

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	-	●

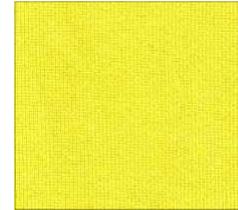
Process:

Exhaust dyeing:

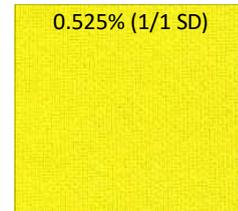
Low temperature with carrier	-	○
HT, 110°C with carrier	-	●
HT, 130°C	-	●
HT, Alkaline dyeing with pH buffer	-	●
Continuous dyeing	-	●
Printing	-	○
Discharge printing	-	●

Exhaust Dyeing

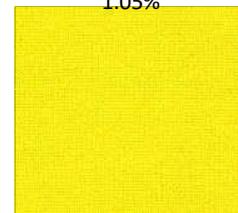
0.175%



0.525% (1/1 SD)



1.05%



Continuous dyeing

5.25 g/l on P/C cloth



(67/33 Blend)

(Dyeing at 130°C for 30 min on polyester fabric at pH 4 adjusted with Levocol 4398)

General properties:

Energy class:	SE
C.T.Z.:	110 - 130°C
Leveling at 130°C:	Moderate
Migration:	Good
pH range in dyeing :	4.0-6.0
Dischargeability:(Zinc sulphonylate formaldehyde)	Good
Sensitivity to metal (Fe)	Low
Saturation value in HTHP exhaust dyeing (On 80D/36F polyester knit fabric)	1.25%
Staining of wool in fiber blend exhaust dyeing at 120°C	Rinse 1
	R.C. 3-4 (On tone)

Shade change under artificial light:

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

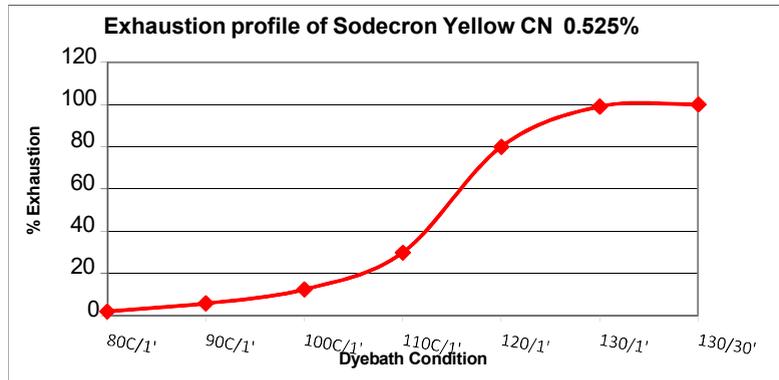
Cross staining on other components of blends in one bath dyeing:

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

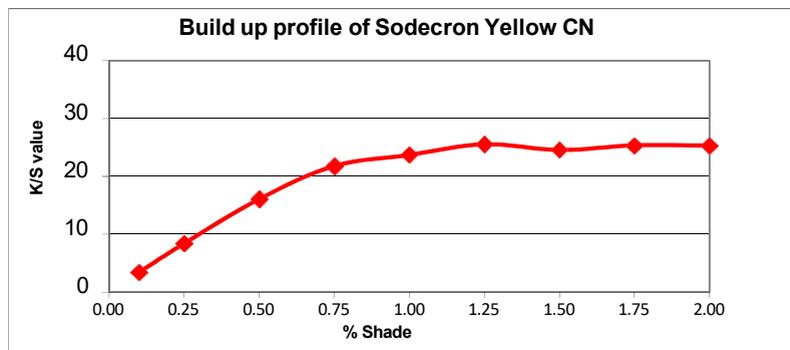
(Abbreviation: ● - Suitable, ○ - Not Suitable, ○ - Not Recommended, R - Redder, G - Greener, B - Bluer, * - On tone)

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Product Performance:



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



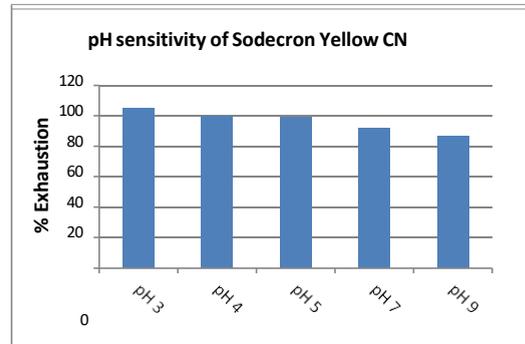
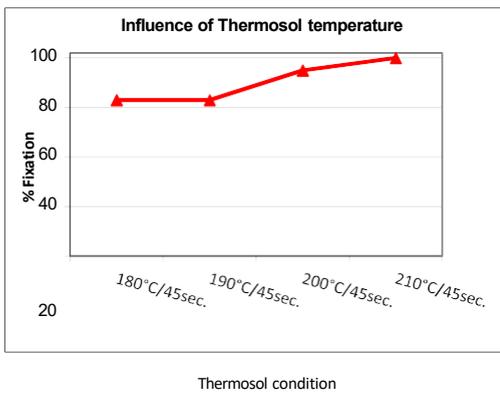
(Exhaust dyeing different depth at 130°C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

Thermosol Application: (Pad - Dry - Thermosol)

5.3 gpl Sodecron Yellow CN on P/C fabric

pH Sensitivity:

0.525% Sodecron Yellow CN in exhaust dyeing



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

- Light fastness (ISO 105 B02, up to grade 4)
- Light fastness (AATCC 16, Option 3, 20 AFU)
- Sublimation fastness 1/1 SD (ISO 105 P01)

Shade change (Rating)		
1/12 SD	1/6 SD	1/1 SD
4	4	4
4.5	4.5	4.5

Temperature	180°C
C.O.S.	4
Staining on PET	3

Sodecron Yellow CN

Fastness Properties: (Tested at 0.525% 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 C06, A2S, 40°C)	4	4	4	4	4-5	4-5	4-5
-	Wash fastness (ISO 105 C06, C2S, 60°C)	4	3-4	4	3	4-5	4-5	4-5
—	Wash fastness (ISO 105 C10 C, 60°C)	4.0	4-5	4-5	4-5	4-5	4-5	4-5
-	Wash fastness (AATCC 61 Option 2A,49°C,)	4.5	5.0	5.0	4.5	5.0	5.0	5.0
—	M&S C4A, 50°C	4	4	4	3	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	4-5	4-5	4-5
—	Chlorinated water fastness (ISO 105 E03,20 ppm)	4						
-	Chlorinated water fastness (ISO 105 E03,50 ppm)	4						
—	Perspiration fastness (ISO 105 E04) Acid	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
—	Burnt gas fumes fastness (ISO 105 G02, 3 cycles)	4-5						
-	Hypochlorite bleach fastness (ISO 105 N01)	4						
—	Peroxide bleach fastness (ISO 105 N02)	4		4-5		4-5		
-	Mercerization fastness (ISO 105 X04)	4		4-5				
—	Crocking fastness (ISO 105 X12, Dry/Wet)			4-5/4				
-	Migration during storage (AATCC TM 163)	4.5	4.5	4.5	4.5	4.5	4.5	4.5

Fastness Properties: (Tested at 1.05% 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, up to grade 4)	4						
-	Wash fastness (ISO 105 C06, A2S, 40°C)	4	3-4	4	3-4	4	4-5	4
—	Wash fastness ((AATCC 61 Option 2A,49°C,)	4.0	3.0	3.5	3.0	4.5	4.5	4.0
-	Water fastness (ISO 105 E01)	4-5	3-4	4	3-4	4	4-5	4-5
—	Crocking Fastness (ISO 105 X12, Dry/Wet)			4-5/4-5				

Fastness Properties: (Tested at 5.25 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, A2S, 40°C)	4	4-5	4-5	4-5	4-5	4-5	4-5
-	Wash fastness ((AATCC 61 Option 2A,49°C,)	4.0	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
-	Crocking Fastness (ISO 105 X12, Dry/Wet)			4-5/4				

Note: Recommended maximum dyeing concentration is 0.70% for ecological compliance.

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

