

Sodecron Golden Yellow HP-3R

A brilliant golden yellow disperse dye with excellent wet and chlorinated water fastness properties, it also exhibits good light fastness. Suitable for bright orange and red shades in combination with Brill Red HP-3BS and Scarlet HP-R and as a shading component

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°C	-	●
HT, Alkaline dyeing	-	○

Continuous dyeing	-	●
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Printing	-	●
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Development method in printing:

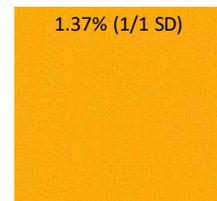
Pressure Steaming	-	●
HT Loop Steaming	-	●

Discharge printing	-	■
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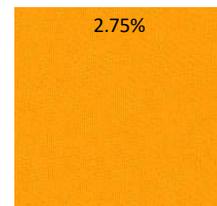
Exhaust Dyeing
0.450%



1.37% (1/1 SD)



2.75%



(Dyeing at 135°C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

General properties:

C.T.Z.:	-	110 - 135°C
Leveling at 135°C:	-	Moderate

Migration:	-	Moderate
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Recommended pH with buffer system :	-	4.0
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Recommended auxiliary:	-	Levocol OA, 3 - 4 g/l
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Dischargeability:(Zinc sulfoxylate formaldehyde)	-	Good
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Sensitivity to metal (Fe)	-	Low
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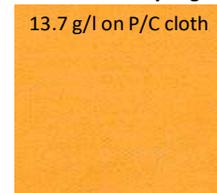
Stripping method	-	Reductive
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Saturation value in HTHP exhaust dyeing	-	4.50%
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(On 80D/34F polyester knit fabric)

Continuous dyeing

13.7 g/l on P/C cloth



Shade change under artificial light:

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

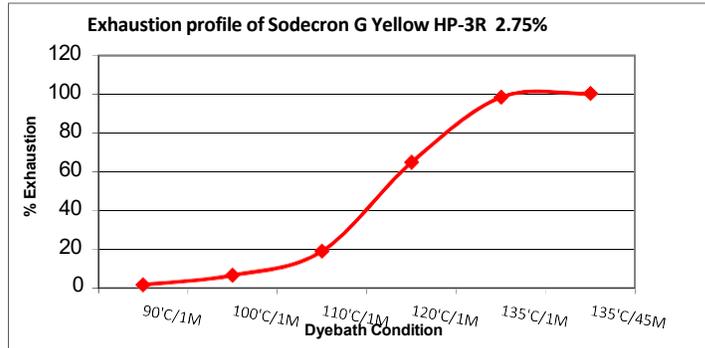
Cross staining on other components of blends in one bath dyeing:

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

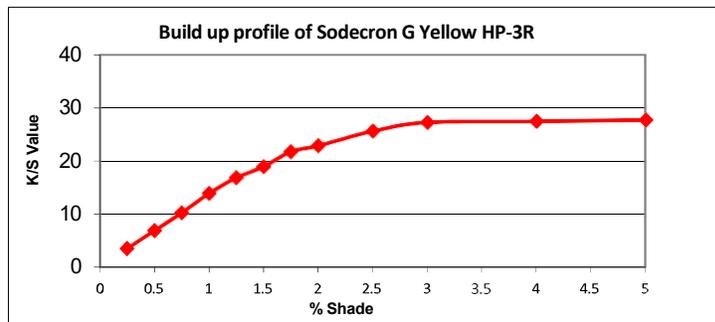
(Abbreviation: ● - Suitable, ○ - Not Suitable, ◐ - Limited suitability, ■ - Not Recommended, R - Redder, G - Greener, Y - Yellower, B - Bluer)

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Product Performance:



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



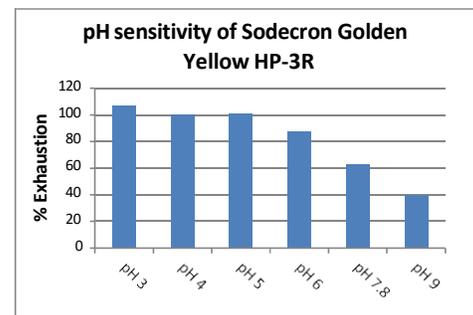
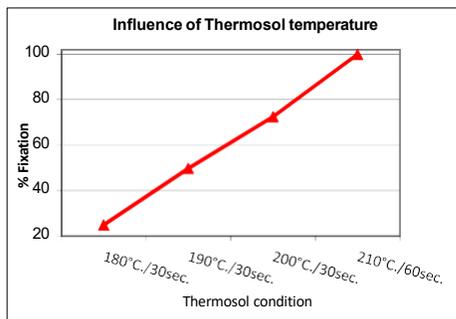
(Exhaust dyeing different depth at 135°C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

Thermosol Application: (Pad - Dry - Thermosol)

13.7 gpl Sodecron Golden Yellow HP-3R on P/C fabric

pH Sensitivity:

1.37% Sodecron Golden Yellow HP-3R in exhaust dyeing



Fastness Properties: (Tested on 80D/34F 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)

Shade change (Rating)		
1/12 SD	1/3 SD	1/1 SD
6	6	6+
4.0	4.0	4.5

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

Sodecron Golden Yellow HP-3R

Fastness Properties: (Tested at 1.37% depth, on 80D/34F 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	4-5	4	4-5	4-5	4-5
—	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°C)		4.0	4.5	4.5	4.5	4.5	4.5	4.5
—	M&S C4A, 60°C		4-5	4-5	4-5	4-5	4-5	4-5	4-5
—	Adidas Wash fastness, 60°C		4	4	4-5	4	4-5	4-5	4-5
—	Dry cleaning fastness (ISO 105 D01)		4-5	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	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	4-5	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)		4-5						
—	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)		4	(Staining on PVC foil)					
—	Croaking 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)		4-5	(Staining on filter paper)					

Fastness Properties: (Tested at 5.5% 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)		6						
—	Wash fastness (ISO 105 C06, C2S,)		4	4	4-5	4	4-5	4-5	4-5
—	Wash fastness (AATCC 61 Option 2A,49°C)		4.0	4.0	4.5	4.0	4.5	4.5	4.5
—	Water fastness (ISO 105 E01)		4-5	3-4	4	3-4	4	4	4
—	Croaking Fastness (ISO 105 X12, Dry/Wet)			4-5/4					

Fastness Properties: (Tested at 13.7 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	4	4-5	4-5	4-5	4-5	4-5
—	Wash fastness (AATCC 61 Option 2A,49°C)		4.0	4.0	4.5	4.0	4.5	4.5	4.5
—	Water fastness (ISO 105 E01)		4-5	3-4	4	3-4	4	4-5	4-5
—	Croaking 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.