



## **ITOSPERSE AUTO**

Disperse Dyes for the Automotive Industry

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ITOSPERSE AUTO dyes are a compact range of automotive grade disperse dyes, with very high light and sublimation fastness. They are subject to the highest batch to batch quality control specifications to ensure excellent reproducibility.

### ITOSPERSE HW DYEING METHOD

**Recipe :** x% Dye  
0.5g/l ITOQUEST LJ3-12  
0.5g/l ITOLUBE 30D  
0.5g/l ITOSOLT LJ550  
Acetic acid to give pH 4.5

**Method :** Heat to 50°C.  
Add chemicals, run for 5 minutes.  
Add dyes, run for 10 minutes.  
Check pH (4.5-5).  
Heat at 2°C/min to 90°C.  
Heat at 1°C/min to 135°C.  
Run for 40 to 60 minutes.  
Cool at 2°C/min to 80°C.  
Drop liquor and rinse.

Reduction clear as required.

### ON-TONE FADING WITH ITOSPERSE AUTO DYES

For the best on-tone fading, careful dye selection is required and often different shades and depth of shade and fastness may mean different dye selection and UV absorber is needed.

Standard trichromatic recipe suggestion is:

ITOSPERSE AUTO YELLOW HLSF

ITOSPERSE AUTO RED A2G

ITOSPERSE AUTO BLUE SUN 200%

Using either

2-3% ITOSORB AF20PS (benzo triazole UV absorber) or 2-3% ITOSORB LJ643 (benzo phenone UV absorber)

To assist in obtaining non metamerich matches, a 4 colour combination is suggested using the standard trichromat along with either:

ITOSPERSE AUTO VIOLET BL 150% or  
ITOSPERSE AUTO TURQ BLUE AG

This combination is also suitable for alkaline dyeing as a solution to oligomer issues, however an alkaline buffer such as ITOBUFFER LJ85 Conc would be required to protect the dye chromophore from hydrolysis.

### FASTNESS TEST METHODS

**Light Fastness** DIN 75202 (FAKRA test) 3 times  
SAE J1885 488KJ<sup>2</sup>

**Rub Fastness** ISO 105-X12

**Sublimation Fastness** ISO 105-X11 (180°C)

**Perspiration Fastness (alkaline)** ISO 105-E02

### SYMBOLS USED IN FASTNESS COLUMNS

- CS** Change of shade
- C** Staining on cotton
- N** Staining on nylon
- W** Staining on wool
- P** Staining on polyester

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ITOSPERSE AUTO		Fastness @ 2%									
		Rub		Light		Sublimation			Alk Perspiration		
Dyed at 1%, Navy and Black at 2%		Dry	Wet	3FAKRA	488KJ	CS	P	C	C	N	W
Yellow AGL		5	5	4/5	4	4/5	4	3/4	4/5	4/5	4/5
Yellow HLSF		5	5	5	5	4/5	5	4	4/5	4/5	4/5
Red A2G		5	5	4/5	4	4/5	4/5	4/5	4/5	4/5	4/5
Violet BL 150%		4/5	5	4/5	4	4/5	4/5	4	4/5	4/5	4/5
Blue ABL 150%		5	5	5	4	4/5	3/4	4/5	4/5	4/5	4/5
Blue SUN 200%		5	5	5	4/5	4/5	4	4/5	4/5	4/5	4/5
Blue AHLB		5	5	5	4/5	4/5	4	4/5	4/5	4/5	4/5
Turq Blue AG		5	5	5	4	4/5	4/5	4/5	4/5	4/5	4/5
Navy HLN		5	4/5	5	4/5	4/5	4	3/4	4/5	4/5	4/5
Black LFN7		5	5	5	4	4/5	4/5	3/4	4/5	4/5	4/5

### NOTES

1. DIN 75202 (FAKRA Test) (Germany)

Four different filter systems are allowed, the specimen surface temperature is measured with the black standard thermometer, and the humidity is very low. Blue standard 6 is used as a reference dyeing to ensure maximum reproducibility and comparability of test results. A test cycle is complete when the change of blue standard 6 matches grade 3 of grey scale ratings (equivalent to dE\* 4.3).

2. SAE J1885 (USA)

This test calls for alternative light and dark phases at medium and high humidity. The specimen surface temperature, measured with the black panel thermometer is 89°C in the light phase and 38°C in the dark phase.

# DISPERSE DYE RANGES



Range	Features
<b>ITOSPERSE</b>	General multi purpose disperse dyes for cost effective recipes and good general fastness properties.
<b>ITOSPERSE AUTO</b>	Dyes with the highest light fastness suitable for car seat and headliner fabrics.
<b>ITOSPERSE LJCC</b>	Compatible mid energy range of disperse dyes for medium deep shades.
<b>ITOSPERSE ECF</b>	Eco friendly range of disperse dyes for acetate or triacetate.
<b>ITOSPERSE BRILLIANT</b>	Range of fluorescent disperse dyes, suitable for fashion or when safety standards (EN471) are required.
<b>ITOSPERSE HW</b>	Alkali clearable disperse dyes with the highest wet fastness ideal for sportswear, workwear on polyester or polyester/cellulose blends.
<b>ITOSPERSE RAP(L)</b>	Rapid dye trichromat for improved level dyeing and reproducibility in pale shades.

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