






Special purpose Sumireact Supra dyes

High light fastness dyes		%owf	Application
Br. Orange RL 150%		2.0	Brilliant vivid orange dye with good light fastness, recommended for all orange and brilliant red shades; compatible with dyes from all other dye ranges. Applicable in exhaust and CPB dyeing.
Red LF		2.0	Metal free special red for all trichromatic combinations where high light fastness is required. Compatible with dyes from all other dye ranges. Good levelling and reproducibility.
Purple RLF 150% *		2.0	Very high light fastness bluish red dye, compatible with all other dye ranges. The optimum dye bath pH for full dye fixation and reproducible dyeing in exhaust: pH 11.0 – 12.0. Also suited for CPB
Low Phototropism			
Yellow NPT 150% Spl		2.0	Special non phototropic yellow dye with excellent alkali stability, applicable in exhaust and CPB dyeing and compatible with dyes from other ranges.
100 % Dischargeable			
Red FD 150%		2.0	100% Dischargeable Red

Properties		High light fastness	Br. Orange RL 150%	Red LF	Purple RLF 150% *	Low Phototropism	Yellow NPT 150%	100 % Dischargeable	Red FD 150%
Swatches dyeing depth (% o.w.f.)			2.0	2.0	2.0		2.0		2.0
Fastness properties	Chlorinated water (20ppm)		3	4	4		4-5		4-5
	Perspiration contact	Staining on cotton	5	5	5		5		4-5
		Color change	5	5	5		4-5		5
	Washing 60°C	Staining on cotton	4-5	5	5		5		4-5
		Color change	4-5	5	5		4/5		4-5
	Perspiration light	Alkaline	4	4-5	4-5		4-5		3-4
		Acid	4-5	4-5	4-5		4-5		4
		Light	4-5	5<	7**		4		4-5
Dyeing properties	Dischargeability		(+)	+	(+)		+		+
	Migration properties		+	+	(+)		+		+
	Optimum Exhaust dyeing temp. (°C)		60	60	60		60		60
Applicability	Printing		-	-	(+)		(+)		(+)
	Continuous dyeing		-	-	(+)		(+)		(+)
	Cold Pad Batch dyeing		+	(+)	+		+		+
	Exhaust dyeing		+	+	+		+		+
Solubility	Salt (Na ₂ SO ₄ = 30g/l)		100	20	20<		20		100
	Water, 25°C (g/l)		100	100	50		100		100<
Arylamine free fabric dyeings (<5ppm)			0	0	0		0		0

Legend for the table

Quotation of applicability

- + : Suitable
- (+) : Limited suitability
- : Unsuitable

Continuous dyeing

- Upper : One bath pad-dry steam
- Lower : Two bath pad-dry steam

Printing

- Upper : One phase process
- Lower : Two phase process

Fastness

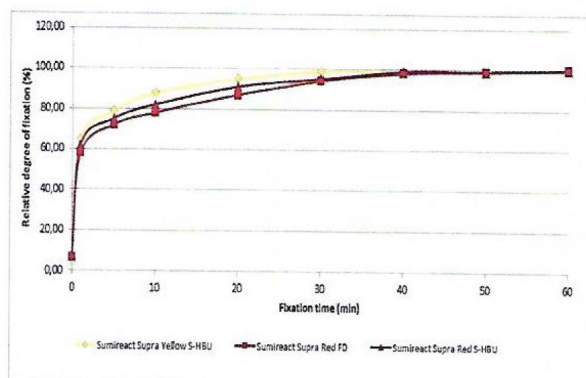
- Light : ISO 105/B02, Xenon Arc lamp
- Perspiration light : ATTS 25.7kJ/m², 420nm, 0.7W/m² Acid (upper) / Alkaline (lower)
- Washing : M&S C4A
- Perspiration contact : ISO 105 E04 Acid (upper) /Alkaline (lower)
- Chlorinated water : ISO 105 E03

- 0 : Suitable
- X : Not –suitable
- Δ : Limited concentration*

Trichromatic combinations

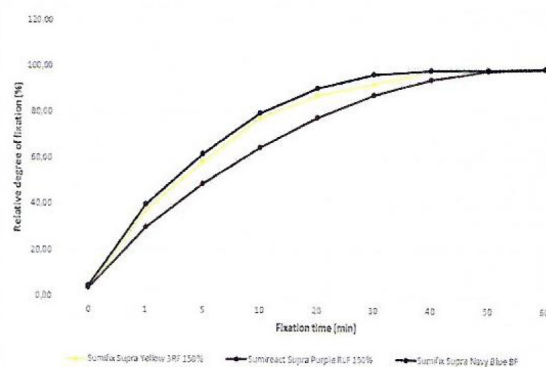
Brilliant fully dischargeable red

Sumireact Supra Yellow S-HBU	1.25%
Sumireact Supra Red FD	2.25%
Sumireact Supra Red S-HBU	1.50%
Total dye concentration	5.0 %



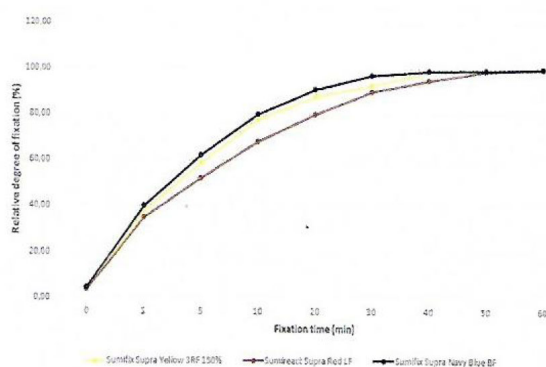
High light fastness Brown

Sumifix Supra Yellow 3RF 150%	1.00%
Sumireact Supra Purple RLF 150%	0.75%
Sumifix Supra Blue BRF 150%	0.75%
Total dye concentration	2.50 %



Pale Shade

Sumifix Supra Yellow 3RF 150%	0.50%
Sumireact Supra Red LF 150%	0.20%
Sumifix Supra Blue BRF 150%	0.30%
Total dye concentration	1.00%



Trichromatic combinations recommended for exhaust dyeing on cotton and viscose:

Special purpose dyes

Standard shades

Shade	Yellow element	Red element	Blue element
High Light Fastness	SF SP Yellow-Brown E-XF SF SP Yellow E-XF SF SP Yellow 3RF 150% SR SP Yellow S-PX SF HF Yellow 3R	SF SP Yellow-Brown E-XF SF SP Brown RNF 150% SF HF Brown RL 150% SR SP Red LF SR SP Purple RLF 150% SF SP Br. Red GF (C) 150%	SF SP Blue BRF 150% SR SP Blue S-PX SF HF Blue 2R (applied @ 60) SR SP Night Blue LF 150%: medium – deep
Low phototropism	SR SP Yellow NPT 150% spl	SF SP Red 3BF 150% SF SP Red E-XF SR SP Red FD	SF SP Blue E-XF SR SP Blue S-PX SF SP Navy Blue BF SF SP Deep Blue E-XF
100% dischargeable	SF SP Yellow 3RF 150% SF SP Yellow E-XF SF SP Yellow S-PX	SR SP Red FD SF SP Br. Red GF (C) 150%	SF SP Blue BRF 150% SF SP Navy Blue BF SR SP Dark Blue S-PX