



## **ITOFIX VSRGB**

Reactive Dyes for Medium to Deep Shades

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ITOFIX VSRGB dyes are a range of dyes based on vinyl sulphone chemistry. Ideal for medium and deep shades by exhaust or cold pad batch application methods offering good repeatability.

### FASTNESS TEST METHODS

<b>Light Fastness</b>	ISO 105-B02
<b>Wash Fastness</b>	ISO 105-C02
<b>Perspiration Fastness</b>	ISO 105-E02
<b>Water Fastness</b>	ISO 105-E01

### SYMBOLS USED IN FASTNESS COLUMNS

<b>C</b>	Staining on cotton
<b>N</b>	Staining on nylon
<b>W</b>	Staining on wool

### ITOFIX VSRGB DYEING METHOD

#### Exhaust

#### Recipe:

x% Dye  
0.5g/l ITOQUEST LJ3-12  
y g/l Salt  
z g/l Alkali

#### Method:

Heat to 40°C.  
Add chemicals and salt, run for 10 minutes.  
Heat to 50°C.  
Add dyes, run for 30 minutes.  
Add alkali over 30 minutes.  
(by portions or progressive dosing)  
Run for 40 to 60 minutes at 50°C.  
Drop liquor and rinse, acid rinse, soap at 100°C.

#### Cold Pad Batch

#### Recipe:

x g/l Dye  
50g/l ITOPREP MSS  
x/5+8 cc/l Caustic Soda 70TW  
(x is dye value in g/l)  
0.2g/l Itowet LJ10

#### Method:

Make dye solution up to 4/5 total volume.  
Make chemical solution up to 1/5 total volume.  
Mix dye and chemical solutions and pad immediately.  
Batch long test for 16-24 hours (Quick test 30 mins at 60°C).  
Rinse, acid rinse, soap at 100°C.

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## Reactive Dyes for Medium to Deep Shades

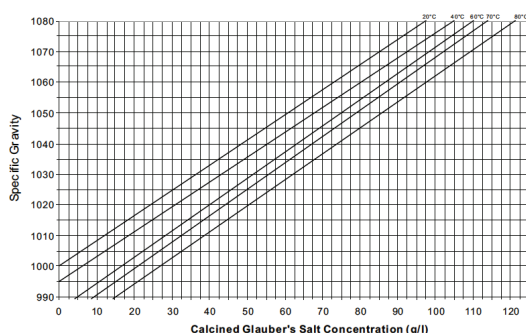


ITOFIX	Fastness Properties at 3%											
	Sol	Light	Wash 50°C			Alk Persp			Water			
	80°C	1/1	C	N	W	C	N	W	C	N	W	
Dyed at 2%, Navy and Black at 4%												
Yellow VSRGB	100	5	5	5	5	5	4/5	5	5	5	5	
Orange VSRGB	100	5	4	4	5	4/5	4/5	4/5	5	5	5	
Red VSRGB	100	4	4	4/5	5	5	4/5	5	5	5	5	
Deep Red VSRGB	100	4/5	5	5	5	5	4/5	5	5	5	5	
Blue VSRGB	100	4/5	5	5	5	4/5	4/5	4/5	5	5	5	
Navy VSRGB	100	3/4	4/5	5	5	4/5	4/5	4/5	5	5	5	
Black VSRGB	100	4	4/5	4	5	4/5	4/5	4/5	5	5	5	

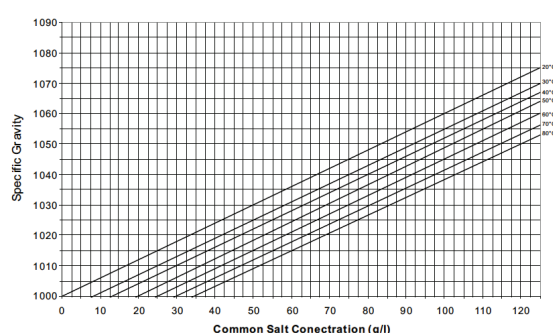
### Salt and Alkali Table (Based on 100% strength dyestuffs)

% Dyestuff	Glaubers Salt	Soda Ash	OR	Soda Ash + Caustic 70tw
<0.3	10	10		-
>0.3 - 0.6	20	10		-
>0.6 - 1.0	30	15		5+1.0
>1.0 - 1.5	40	15		5+1.5
>1.5 - 3	50	20		5+2.0
>3 - 5	80	-		5+3.5
>5	100	-		5+5.0

Specific Gravity of Calcined Glauber's Solutions



Specific Gravity of Common Salt Solutions



# REACTIVE DYE RANGES



Application Method	Best Quality	Also Suitable	Cheapest Recipe
<b>EXHAUST</b>			
<b>Warm 50-60°C</b>	ITOFIX VM (pale to medium shades)	ITOFIX VSRR (pale shades)	ITOFIX VS (med-full)
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Hot 80-130°C</b>	ITOFIX CTSNR (pale to full shades)	ITOFIX CT (pale to full shades)	
	ITOREACT (pale to medium shades)		
<b>Cold Pad Batch</b>	ITOFIX VM (pale to medium shades)	ITOFIX VSRR (pale shades)	ITOFIX VS (med-full)
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Pad-Dry-Pad-Steam</b>	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRR (pale shades)	ITOFIX VS
	ITOFIX P (medium to full shades)	ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Pad - Dry - Steam</b>	ITOFIX P (pale to full shades)	ITOFIX VSRR (pale shades)	ITOFIX VS
		ITOFIX VSRGB (medium to full)	
		ITOFIX VMS (very full shades)	
<b>Pad - Steam</b>		ITOFIX VM (pale to medium)	ITOFIX VS
<b>Pad-Dry-Thermofix</b>	ITOFIX P (pale to full shades)	ITOFIX VSRGB (medium to full)	ITOFIX VS
	ITOFIX VMHLF (highest light fastness)	ITOFIX VMS (very full shades)	
<b>E Control</b>	ITOFIX P (pale to full shades)	ITOFIX VSRR (pale shades)	ITOFIX VS
	ITOFIX VMHLF (highest light fastness)	ITOFIX VSRGB (medium to full)	
<b>Printing</b>	ITOFIX P (pale to full shades)		ITOFIX VS

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