

**SAUJANYA EXPORTS**

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**Reactive Dyes**

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Pigment Powders • Food Colours • Lake Colours • Solvent Dyes • Acid Dyes

Direct Dyes • Basic Dyes • Reactive Dyes • Ink Colours • Napthol Dyes • Fast Salts • Vat Dyes

Fast Bases • FD&C Colours • D&C Colours • Blended Food Colours • Blood Stains & PH Indicators

## SAUJANYA EXPORTS

Saujanya Exports has 50 years of worldwide experience in the field of manufacturing & exporting of Pigment Powders, Food Colours, Lake Colours, Dyes, Ink Colours, Fast Salts, Fast Bases, FD&C Colours, D&C Colours, Blended Food Colours, Blood Stains & PH Indicators.

After a humble beginning in the textile city of India, Ahmedabad, in 1973, it has grown into a multi faceted, multi product company. Due to dynamic marketing, high morals, service & high standards of quality concern, the total group export turnover exceeds US \$30.00 million. We have a will to grow, both in national and international markets by offering best quality products to the customers. Our group has moved rapidly towards much higher growth & success since inception.

We have got well equipped laboratory for quality of Dyestuffs and Food Colours. We can meet the specific requirements of our customers due to our proper quality control and research.

We are exporting Food Colours, Lake Colours, Dyes & Pigments to United Kingdom, Indonesia, Malaysia, Singapore, Thailand, Mexico, Peru, Brazil, Argentina, South Africa, Netherlands, Spain, Phillippines, Italy, France, New Zealand, Australia, Egypt, Jordan, Russia, Morocco, Algeria and Pakistan.

## SAUFIX & SAUZOL REACTIVE DYES

Saufix 'M', 'H' & 'P' Brand Dyestuffs (Cyanuric Chloride based) are fibre reactive dyes which form a chemical linkage with hydroxyl groups of cellulose and thus give dyeing of very goods fastness to wet treatments.

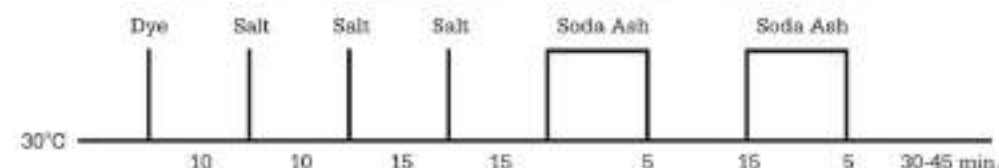
"C" Brands are applicable from cold bath while "H" & "P" Brands are to be applied at temperature of about 80°C. Both these brands are suitable for dyeing and printing of cotton, viscose, cuprammonium rayon and natural silk.

Sauzol Dyestuffs (Vinyl Sulphone based reactive dyes) are suitable for padding processes due to their high solubility even in presence of alkali. These dyes can be used for al conventional exhaustion methods by addition of Glauber's/Common Salt and alkali.

### Procedure for Dyeing with 'M' Brand Saufix Dyes:

Receive cold water in the dye-bath (Recommended m/l ratio 1 to 15), add required quantity of Common salt or Glauber salt. Paste required Saufix 'M' brand dye with water and dissolve by adding water at 45°C run 15 to 20 minutes. Add required amount of soda ash (as solution), run material for 45 to 60 minutes, squeeze, wash with water and soap at boil with 2g/L soap, wash with water and dry. Soaping treatment is highly essential to remove unfixed dye to produce dyeing of high washing fastness.

### Standard Exhaust Method for Saufix 'M' Brand Dyes



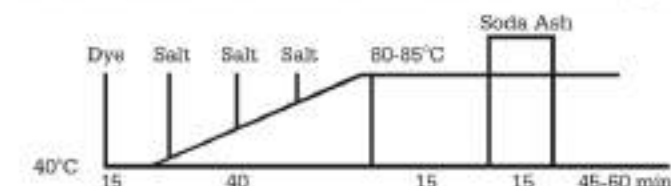
### Quantities of Salt & Soda Ash for Saufix 'M' Brand Dyes

Depth of Shades %	Common Salt/Glauber's Salt g/l (dye liquor)	Soda Ash g/l (dye liquor)
Upto 0.5	30	3
0.5 to 2.0	40	4
2.0 to 4.0	50	7
Above 4.0	60	10

### Procedure for Dyeing with 'H' & 'P' Brand Saufix Dyes:

Take requisite quantity of water in dye bath (Recommended m/l ratio 1 to 15), heat to 40°C, add Common salt or Glauber salt, soda ash and 1g/l of resist salt. Paste 'H' & 'P' Brand colour with the water and dissolve by adding water at 80°C for 45 to 60 minutes. Squeeze, wash with water and soap, boil with 2g/l of soap for 10 minutes, wash and dry. Soaping treatment is highly essential to remove unfixed dye to produce dyeing of high washing fastness.

### Standard Exhaust Method for Saufix 'H' Brand Dyes



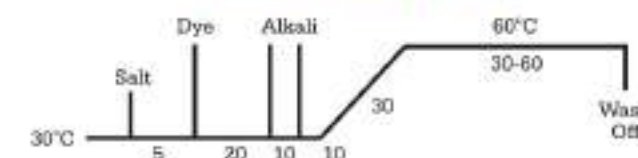
### Quantities of Salt & Soda Ash for Saufix 'C' Brand

Depth of Shades %	Common Salt/Glauber's Salt g/l (dye liquor)	Soda Ash g/l (dye liquor)
Upto 0.5	40	20
0.5 to 2.0	60	20
2.0 to 4.0	80	20
Above 4.0	100	20

### Procedure for Dyeing with Sauzol Dyes:

Take requisite quantity of dyes and salt in the dye-bath at 30°C and alkalies are added after 15-20 Minutes. The bath is then heated to recommended dyeing temperature within 20-30 minutes and goods are dyed for 60-90 minutes, depending upon the dyeing temperature.

### Standard Dyeing Method



### Quantities of Salt & Alkali for Sauzol Dyes

Depth of Shades %	Glauber's	Caustic Soda 70°Tw gms/l	Soda Ash g/l
2	50	1	5
4	80	-	5-10

For Sauzol Yellow FG and Black B the dyeing temperature is 40-60°C whereas for Turq. Blue G it is 80°C.

### Preparation of Printing Paste with Saufix 'H' & 'P' Brand:

Saufix 'H' & 'P' Brand Dyestuff	10-50	parts
Urea	100-500	parts
Resist Salt	10	parts
Water	400-365	parts
Bicarbonate	20-25	parts

### Preparation of Printing Paste with Sauzol Dyes by Steam Process:

Sauzol Dyestuff	10-40	parts
Urea	4-10	parts
Hot Water	100-200	parts
Resist Salt	10	parts
Sodium Bicarbonate	10-25	parts

Finally made to 1000 parts with alginate thickening or emulsion thickening.

## SAUFIX 'HE' DYES

SAUFIX HE dyes are suitable for dyeing cotton and other cellulosic materials. These dyes possess significantly higher exhaustion and fixation efficiency which results in appreciable cost reduction, in comparison to conventional Reactive dyes. The high fixation and good build up are of particular importance when dyeing polyester/ cellulosic blends where liquor to goods ratio is quite high. Due to higher fixation of Saufix HE dyes, the drained and wash liquors after dyeing, contain much less quantity of unfixed dyes in comparison to conventional Reactive dyes. This facilitates quicker wash off and efficient soaping.

The improved stability of Saufix HE dyes gives improved batch to batch consistency. Exhaustion of Saufix HE dyes can be controlled by salt additional and temperature to give level dyeing before alkali addition.

### Soaping after Exhaust Dyeing:

- Rinse cold water (10-20 min.)
- Soaping at boil water (15-30 min.)
- Rinse warm water (10 min.)

### Printing:

450 gm Sodium Alginate thickening 50:1000  
 320 gm water  
 200 gm Urea  
 10 gm Resist Salt  
 20 gm Sodium Bicarbonate

## SAUFIX 'ME' DYES

- ME Dyes are low temperature high exhaust reactive dyes suitable for dyeing, padding and printing of all dyes of cellulosic material.
- They are applied by exhaust dyeing methods at temperature of 60-65°C.
- They offer high grade of all round fastness properties.
- They have an advantage of high degree of exhaustion and fixation rates.
- They offer excellent leveling properties and excellent alkalis stability.
- They give highly reproducible dyeing decrease of better alkali stability and low sensitivity to temperature.

### Standard Dyeing Method with Saufix 'ME' Brand Dyes



### Quantities of Salt & Soda Ash for Saufix 'ME' Brand Dyes

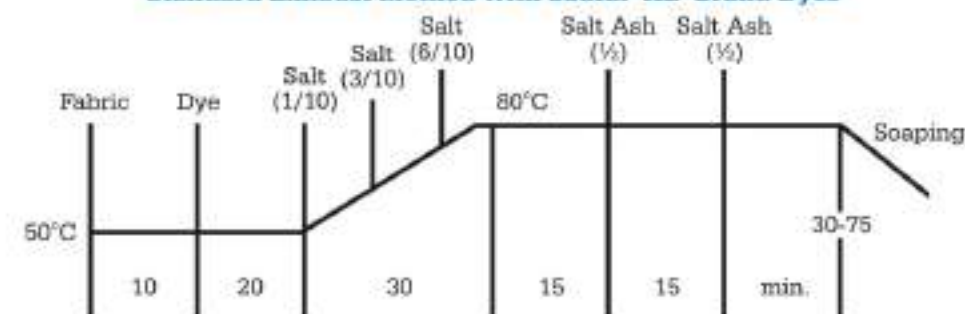
Depth of Shades (o.w.f.)	Salt (g/l)	Soda Ash (g/l)
Upto 0.5	40	20
0.5 to 2.0	60	20
2.0 to 4.0	80	20
Above 4.0	100	20

### Advantage:

- Excellent build up in high as well as low liquor ratios.
- Not affected by wide variation in liquor ratios in dyeing yarn, loose stock, piece and hank, in package and beam dyeing machines, knitted and woven goods in the winch and woven piece goods on the jig.
- High fixation and high tinctorial values hence economical in use.
- Very good compatibility gives extensive range of shades based on few dyes and excellent reproducibility, consistent high yields and freedom from "listing" and "ending".
- Though Saufix H/P Brand dyes do not have the same exhaust and fixation properties as HE dyes, they can be used in mixtures with HE series.
- Extremely suitable for dyeing single bath 2 step method. Cellulosic part of polyester/ cotton and polyester/ viscose blends.

### DYEING : TEMPERATURE 50-80°C

#### Standard Exhaust Method with Saufix 'HE' Brand Dyes



#### Quantities of Salt & Soda Ash for Saufix 'ME' Brand Dyes

Depth of Shades (o.w.f.)	Salt (g/l)	Soda Ash (g/l)
Upto 0.5	30	10
0.5 to 2.0	45	15
2.0 to 4.0	70	20
Above 4.0	90	20

### Washing:

After dyeing, the unfixed dyes to be completely removed by cold rinsing, hot rinsing and soaping at boil with 1-2 g/l. anionic surfactant.

### Padding method:

- Silicate pad-bath-wash.
- Alkali pad-dry-thermofix.

### Printing with Saufix 'ME' Brand Dyes:

Saufix "ME" Dyes can be used for printing. These dyes can be applied in printing by any of the following methods.

- Print-dry-stream (Saufix ME + Alkali)
- Print-dry-thermofix (Saufix ME + Alkali)
- Print-dry-nip padding in sodium silicate bath-10hours

### Shade Illustrations:

All the shades illustrated are on bleached mercerised cotton poplin by following dyeing methods :

- Saufix M' Dyes : Dyed by exhaust dyeing at room temp. at 1:10 M.L.R.
- Saufix H/P' Dyes : Dyed by cold batch (Caustic Soda) process.
- Sauzol & Saufix 'ME' Dyes : Dyed by exhaust dyeing at 60 degree C at 1:20 M.L.R.
- Sauzol Dyes : Dyed by cold pad batch (Sodium Silicate) process.

### Key to Abbreviation:

LS = Less Suitable    S = Suitable    L = Low Reactivity    M = Medium Reactivity    H = High Reactivity

Light = 1 to 8 in increasing order    Washing & Other = 1 to 5 in increasing order

Dischargeability = G - Good; F - Fair; P - Poor    Stain = Staining on adjacent white fabric

This information is provided in good faith to the best of our knowledge & without liabilities.

SAUJANYA EXPORTS		GENERAL PROPERTIES						FASTNESS PROPERTIES									
SAUZOL (VS DYES) ON COTTON		Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1% 4%	
		Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochochlorite	Hydrogen Peroxide		Alteration	Stain		
												Alteration	Stain			Alteration	Stain
Brill Yellow 7GL *Yellow 100		30°C	100	L	S	S	G	G	5	4-5	5	1	5	4	5		
Yellow GR *Yellow 15		30°C	200	H	S	S	LS	G	6	4	5	1	5	5	4-5		
Yellow GL *Yellow 37		30°C	100	H	S	S	S	G	6	4-5	5	1	5	5	5		
Yellow FG *Yellow 42		30°C	100	L	LS	S	S	G	5	4-5	5	1	5	4	5		
Golden Yellow RNL *Orange 107		30°C	100	H	S	S	S	G	5	4-5	4-5	1	5	4-5	4-5		
Golden Yellow R		30°C	100	H	S	S	S	G	5	4-5	4-5	1	5	5	4-5		
Orange 3R *Orange 16		30°C	80	H	S	S	S	G	5-6	5	5	1	5	5	5		
Red C2G *Red 106		30°C	100	L	LS	S	S	G	4	4-5	5	1	5	5	4-5		
Red 5B *Red 35		30°C	100	L	LS	S	S	G	6	3-4	5	1	4	5	5		
Red RB *Red 198		30°C	100	L	LS	S	S	G	6	3-4	5	1	4	4	5		
Red BSID *Red 111		30°C	100	L	LS	S	S	G	5	4-5	5	1	5	5	4-5		
Violet 5R *Violet 5		30°C	100	M	S	S	S	P	6-7	4	5	5	3-4	3-5	4-5		
Navy Blue GG *Blue 203		30°C	100	S	S	S	S	G	5-6	6	5	1	5	4-5	4-5		
Blue RGB *Blue 250		30°C	100	M	S	S	S	G	6	4-5	5	1	5	5	5		
Blue 3R *Blue 28		30°C	100	H	S	S	S	G	7	4	5	3-4	5	5	4-5		

\* C. I. Reactive

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SAUJANYA EXPORTS		Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1% 4%	
		Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochochlorite	Hydrogen Peroxide		Alteration	Stain		
												Alteration	Stain			Alteration	Stain
Blue R *Blue 19		30°C	80	H	S	S	S	G	6	4	5	3-4	5	4	3-4		
Supra Blue H3RP *Blue 49		30°C	100	H	S	S	S	G	5	3-4	5	3-4	5	3	3-4		
Turq. Blue G *Blue 21		30°C	100	H	S	S	S	P	6	4-5	4-5	3-4	5	5	4-5		
Brown GR *Brown 18		30°C	100	M	S	S	S	G	6	4-5	5	1	5	4	5		
Black B *Black 5		30°C	100	H	S	S	S	G	5	4-5	5	1	5	5	4		
Black RL *Blue 31		30°C	100	H	S	S	S	F	7	4-5	5	3-4	5	5	4		
Black HFGR		30°C	120	H	S	S	S	G	5-6	5	4-5	2	5	5	4-5		
Deep Black N-150		30°C	100	H	S	S	S	G	5	4-5	5	1	5	5	4		
Deep Black WNN		30°C	80	H	S	S	S	G	5	4-5	5	1	5	4-5	5		
Super Black R		30°C	80	H	S	S	S	G	5	4-5	5	1	5	4-5	5		
Super Black G		30°C	80	H	S	S	S	G	5	4-5	5	1	5	4-5	5		
Blue 220		30°C	100	H	S	S	S	G	6	5-6	3-4	1	5	4-5	5		

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SAUJANYA EXPORTS		Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1% 4%	
		Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochochlorite	Hydrogen Peroxide		Alteration	Stain		
												Alteration	Stain			Alteration	Stain
Yellow H4G *Yellow 18		30°C	130	100	L	4	80°C	6	4	4	2-3	5	4-5	4	4		
Golden Yellow HR *Orange 12		30°C	110	50	M	5	80°C	6	5	5	3	4-5	5	4	5		

\* C. I. Reactive

SAUJANYA EXPORTS	GENERAL PROPERTIES								FASTNESS PROPERTIES							
	Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1%	4%
	Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochlorite	Hydrogen Peroxide		Alteration	Stain		
											Alteration	Stain				
Orange H2R *Orange 13	30°C	150	100	M	5	80°C	4-5	5	5	4	4	4-5	5	4-5		
Red 6BX *Red 76	30°C	80	40	L	2-3	60°C	6	5	5	2	3-4	4-5	4-5	5		
Red H8B *Red 31	30°C	80	10	H	2-3	80°C	4-5	4-5	5	3-4	4	4-5	4	3-4		
Magenta HB *Violet 26	30°C	100	80	M	4	80°C	4	4-5	4-5	1	3	4	4	4		
Purple H3R *Violet 1	30°C	130	50	M	4	80°C	4	5	5	4	2-3	5	2-3	4		
Turq. Blue H5G *Blue 25	30°C	120	80	H	5	90°C	5-6	5	4	3-4	2	3	4-5	3		
Turq. Blue HA *Blue 71	30°C	90	50	H	4	80°C	6	5	5	4	3	5	4-5	3		
Black HN *Black 8	30°C	40	40	L	5	80°C	6-7	5	5	1	4	5	4-5	4-5		
Blue H5R *Blue 13	30°C	120	30	M	2-3	80°C	6	5	5	1	1	5	4-5	4		
Navy Blue RX *Blue 59	30°C	100	40	M	3	80°C	3-4	4	4	1	2	2	4	4		
Red Brown H4R *Brown 9	30°C	90	30	L	4	80°C	4-5	5	4-5	4-5	5	4-5	4-5	3-4		

#### SAUFIX 'HE' DYES ON COTTON

Yellow HE6G *Yellow 135	30°C	30	25	H	4	80°C	4-5	5	5	1-2	4	4	3	4	
Yellow HE4G *Yellow 105	30°C	25	20	H	5	80°C	5-6	5	5	1-2	4-5	4-5	4-5	4-5	
Yellow HE4R *Yellow 84A	30°C	80	60	H	4-5	80°C	5-6	5	5	2-3	4-5	5	4-5	4-5	

\* C. I. Reactive

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	Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1%	4%
	Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochlorite	Hydrogen Peroxide		Alteration	Stain		
											Alteration	Stain				
Golden Yellow HER *Orange 84	30°C	80	60	H	4	80°C	5	5	4-5	3-4	4-5	4	4-5	4		
Orange HE2R *Orange 84	30°C	35	50	H	4-5	80°C	3-4	4	5	4-5	4	4-5	4	4		
Orange HE3B *Orange 120	30°C	150	140	H	4	80°C	4-5	5	4	2-3	3-4	4-5	5	4-5		
Red HE7B *Red 141	30°C	150	150	H	4	80°C	4-5	5	5	3	4-5	4-5	5	4-5		
Red HE8B *Red 152	30°C	160	160	H	5	80°C	4-5	5	3	3-4	4-5	4-5	5	4-5		
Blue HERD *Blue 160	30°C	60	60	H	3	80°C	4	5	3	2	2	2-3	3-4	4		
Navy Blue HER *Blue 171	30°C	60	60	H	4	80°C	4	5	4-5	1-2	4	4-5	4	4-5		
Navy Blue HE2R *Blue 172	30°C	70	60	H	-	80°C	4	4-5	3	2	3	3	4	5		
Green HE4BD *Green 19	30°C	120	60	H	4-5	80°C	4	5	4-5	1	2-3	4-5	4-5	4		
Black HEBL	30°C	25	20	H	-	80°C	4	5	5	3	4	4	4	4		

#### SAUFIX 'M' DYES ON COTTON

Yellow M8G *Yellow 86	30°C	70	40	L	M	40°C	6-7	5	5	1	4-5	4	4-5	5	
Yellow M4G *Yellow 22	30°C	40	20	M	M	40°C	6	5	5	1	3-4	5	4-5	5	
Yellow MGR *Yellow 7	30°C	30	50	H	M	40°C	6	5	5	4-5	4-5	5	5	4	
Golden Yellow MR *Yellow 44	30°C	160	130	H	H	40°C	6	5	5	2-3	4-5	5	4-5	4	

\* C. I. Reactive

SAUJANYA EXPORTS	GENERAL PROPERTIES							FASTNESS PROPERTIES									
	Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1%	4%	
	Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochlorite	Hydrogen Peroxide		Alteration	Stain			
											Alteration	Stain					
Yellow M4R *Orange 14	30°C	80	40	M	M	40°C	5	5	5	1	3-4	5	4	4			
Orange M2R *Orange 4	30°C	180	160	M	M	30°C	4	5	5	4	4	5	4-5	4			
Red M5B *Red 2	30°C	80	50	H	H	40°C	4-5	5	4-5	1	2	4-5	5	3			
Red M8B *Red 11	30°C	50	10	H	M	30°C	4-5	5	5	4	4-5	4	4-5	2			
Magenta MB *Violet 13	30°C	20	5	H	H	30°C	3-4	5	5	1	3	3	4-5	4-5			
Violet C4R *Violet 12	30°C	60	50	L	H	30°C	5	5	4-5	3	3	3	4	4			
Turq. Blue MGN *Blue 140	30°C	130	-	H	H	40°C	6	4-5	3-4	2-3	2-3	2	4	4			
Navy Blue M3R *Blue 9	30°C	70	-	H	H	60°C	5	5	4	3	1	3-4	4-5	3			
Blue M2R *Blue 81	30°C	100	60	H	H	40°C	4	4	4	2	2	3	4	4			
Blue MR *Blue 4	30°C	80	40	L	H	40°C	6	5	5	2	3-4	4-5	4-5	5			

**SAUFIX 'P' ON COTTON**

Yellow P6GS *Yellow 95	30°C	145	100	M	5	80°C	4	5	5	4	4	4-5	5	4-5	
Brill. Red P4B *Red 24	30°C	145	100	M	5	80°C	4	5	5	4	4	4-5	5	4-5	
Brill. Red P3B *Red 45	30°C	150	120	M	3	80°C	5	4-5	5	4-5	4	4	4	4-5	
Brill. Blue P3R	30°C	100	30	L	5	80°C	5	3-4	5	3	3-4	5	3	3-4	

\* C. I. Reactive

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	Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg.	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1%	4%	
	Temperature	Straight	30 pts/1000 Common Salt	Substantivity	Reactivity			Alteration	Stain	Hypochlorite	Hydrogen Peroxide		Alteration	Stain			
											Alteration	Stain					
Yellow RR	30°C	120	H	S	S	S	5	5	3-4	4	4	4-5	4	3-4			
Red RR *Red 106:1	30°C	150	H	S	S	S	5	5	4	3	4	3	4	4			
Blue RR *Blue 122	30°C	100	H	S	S	S	5	5	3	3	4	4	4	3			

SAUJANYA EXPORTS	GENERAL PROPERTIES							FASTNESS PROPERTIES									
	Solubility gms/l			Light Fastness 1:1	Day Light 1:1	Washing		Bleaching			Alkaline Perspiration		1%	4%			
	Temperature	Gms./l	Alteration			Stain	Hypochlorite	Hydrogen Peroxide		Alteration	Stain						
								Alteration	Stain								
Yellow ME4GL *Yellow 160	50°C	120	6	4-5	4-5	4-5	4-5	1	5	4	5						
Golden Yellow MERL *Yellow 145	50°C	100	5	5	5	3-4	3-4	4	4	3-4	3-4						
Orange ME2RL *Orange 122	50°C	75	5	5	5	4	4	2	5	4	5						
Red ME4BL *Red 195	50°C	100	5	4-5	4-5	4	4	3	3	4	4						
Red ME6BL *Red 250	50°C	80	5	4-5	4-5	4	3	4	3	4	4						
Blue ME2RL *Blue 248	50°C	100	4	4-5	4-5	4	4	3-4	3-4	4	4						
Navy Blue ME2GL *Blue 194	50°C	120	4-5	5	5	4	4	1	5	3	5						
Blue BRF *Blue 221	50°C	120	4-5	4-5	4-5	3	3	1	4	3	3						
Blue BF *Blue 222	50°C	120	4-5	4-5	4	4	3	4	4-5	4	3						

\* C. I. Reactive