		F	AST	ENSS	в то		SOLU TY at		
Shade 4.0%	REACTIVE 'M' BRAND DYES (C.I. REACTIVE)	LIGHT [1/1]	WASH- ING [IS04]	PERSPI- RATION	HYPOCH- LORITE	SEA WATER	STRAI- GHT	WITH 30 G/L SALT	
	Yell. MgG (Yell. 86)	6	5	4	1	4	70	60	
	Orange M ₂ R (Orange 4)	4	5	4	1	4	180	150	
	Red M ₅ B (Red 2)	4-5	4-5	5	4	3-4	100	80	
	Red M ₈ B (Red 11)	4-5	4-5	4-5	4	3	80	60	
	Blue MR (Blue 4)	6	5	4-5	2	4	80	40	
	Blue M ₄ GD (Blue 168)	4-5	4-5	5	2	3-4	150	150	
	REACTIVE 'H' BRAND DYES								
	G. Yell. HR (Yell. 12)	6	4-5	5 5	3	4	100	50	
	Orange H ₂ R (Orange 13)	4-5	5 5	4-5	5 4	4	140	50	
	Red H ₈ B (Red 31)	4-5	5 4	4	3-4	4 4	60	10	
	Blue H ₅ R (Blue 13)	6-	5 5	4-	5 4	3	120	30	
	T. Blue H ₅ G (Blue 25)	5-0	6 4-	5 4-	5 3-	4 3	80	20	

	REACTIVE	FASTENSS TO						JBILI- t 30°C
SHADE 4.0%	The second secon	LIGHT [1/1]	WASH- ING [IS04]	PERSPI- RATION	HYPOCH- LORITE	SEA WATER	STRAI- GHT	WITH 30 G/L SALT
	G. Yell. RNL (Orange 107)	4-5	5	4-5	1	4	90	90
	Orange 3R (Orange 16)	5-6	3-4	4-5	1	4	70	60
	Orange FR (Orange 82)	5-6	5	4-5	2	4	100	80
	Red F₃B (Red 180)	4-5	4-5	4-5	3-4	4	120	80
	Red RB (Red 198)	5-6	4-5	4	1	4	100	90
	Red BB	6	5	4-5	2	4	100	90
	Violet 5R (Violet 5)	6-7	3-4	3-4	1-2	4	100	80
	Blue R (Blue 19)	7	5	5	3-4	4-5	80	40
	Blue 3R (Blue 28)	6-7	4	3-4	3-4	3-4	100	80
	Brown GR (Brown 18)	5-6	3-4	4	1	4	100	100
	Bordeaux B (Red 49)	5-6	4-5	4-5	3	4	80	50
	N. Blue GG (Blue 203)	5-6	4-5	4-5	1	5	100	80
	N. Blue RGB	6	5	4	1	4-5	100	80
	Dark Blue HR (Blue 89)	6	3-4	4	1	4	80	60
	Black B (Black 5)	5	4-5	5	,1	4	100	100

		F	AST	ENS	s TO		SOI.UBILI- TY at 30°C		
Shade 4.0%	REACTIVE 'HE' DYES (C.I. REACTIVE)	LIGHT [1/1]	WASH- ING [IS04]	PERSPI- RATION	HYPOCH- LORITE	SEA WATER	STRAI- GHT	WITH 30 G/L SALT	
	Yell. HE ₆ G (Yell. 135)	5	4-5	4-5	3	4 "	50	50	
	Yell. HE ₄ R (Yell. 84)	5	5	4-5	4	5	80	70	
	Orange HER (Orange 84)	4-5	4	3-4	1-2	4	40	15	
	Red HE ₃ B (Red 120)	5	5	4	5	4	70	60	
	Red HE ₇ B (Red 141)	4-5	4-5	4-5	3-4	4	80	70	
	Red HE ₈ B (Red 152)	4-5	4-5	4-5	3-4	3	80	50	
	N. Blue HER (150%) (Blue 171)	5-6	5	4	3	4	100	90	
	N. Blue HE ₂ R	6	3-4	4	1	3	80	60	
	T. Blue HA (Blue 71)	6	4-5	2-3	5	3	90	5	
	Green HE ₄ BD (Green 19)	4-5	5	4-5	2D	4	100	70	
		y						-	
The second secon				,					

REACTIVE	F	FAST	ENS	s TO		SOLUBILI- TY at 30°C	
BI-FUNCTIONAL DYES (C.I. REACTIVE)	LIAHT L1/1]	WASH- ING [IS04]	PERSPI- RATION	HYPOCH- LORITE	SEA WATER	STRAI- GHT	WITH 30 G/L SALT
Yell. BF ₇ G (Yell. 185)	5-6	4-5	4	4	4	80	60
Yell. BF ₃ G	4-5	4-5	4-5	2-3	4	70	60
Yell BF ₄ G (Yell. 160-A)	6-7	4-5	4-5	5	3-4	70	30
G. Yell. BFR (Yell. 145)	5	5	5	3	4	50	30
Orange BF ₂ R (Orange 122)	4-5	4-5	4-5	4	4	120	80
Red BF ₃ B	5	4-5	4	3	4	100	80
Red BF ₄ B (Red 195)	5	4	4	4-5	4	70	50
Red BF ₆ B (Red 250)	6	4-5	4-5	4	4	100	70
Red BFGN (Red 223)	4-5	5	4	3-4	4-5	80	70
N. Blue BFBN (Blue 222)	4-5	5	4	3-4	4	80	70
N. Blue BF ₂ BN (Blue 194)	4	5	4	3-4	4	80	70
R. Brown BFBR	6	3-4	3-4	3-4	4	80	60
Black BFGR	4-5	4-5	4-5	2	4	100	100
		2					
	and an opposite of the first		and the control of the control				,

We offer wide range of Reactive Dyes and are recommended for their consistency and quality for their hues and shades, for their fastness and other properties.

 $^{\prime}\text{M}^{\prime}$ DYES : are highly reactive and can be applied at temperature below 50°C.

'H' DYES: are less reactive dyes and requires more severe condition for fixation. These dyes are more popular for printing and have better fastness property.

Salt and Alkali requirement

	Salt	Alkali
Cold Brand	30-60 g/l	Soda ash 5-20 g/l
Hot Brand	40-80 g/l	Soda ash 20 g/l

'VS' DYES: These are vinyl sulphone based dyes & offers wide range of colours which are versatile enough to suit different dyeing methods. Results are excellent and shades come clean and brilliant with no variation in dyeing as well as printing.

V.S. Dyes are suitable for following application

- 1) Pad-Jlg Process.
- 2) Two bath pad steam process.
- 3) One bath pad steam process.
- 4) One bath pad Batch process (With Sodium Silicate)
- 5) Two bath pad batch process.
- 6) Thermofixation process.
- 7) Printing.

SALT AND ALKALI REQUIREMENTS

	40°c	60°c
Glauber's Salt - g/l	50	50
Tri Sodium phosphate - g/l	10-15	5-10

'HE' DYES: are specially developed for high exhausion and good build up. Due to high fixation rate, the drained and was liquor after dying contains much less quantity of unfixed dyes. Controlled salt addition and temperature gives good level dyeing before alkali addition.

'HE' dyes are not affected by variation in material to liquor ratio.

SALT AND ALKALI REQUIREMENTS:

	upto 0.5%	0.5% to 1.0%	1.0% to 2.0%	2.0% to 4.0%	4.0% and above
Salt (Gms/L)	30	45	60	70	90
Soda Ash (Gms/L)	10	15	15	20	20

Bi-FUNCTIONAL DYES: are low temperature high Exhaust dyes with high grade all round fastness properties. Because of low Sensitivity to temp. and excellent alkali stability shades dyed by these dyes are highly reproduceable.

Salt and Alkali Requirement

Glauber's Salt - 50 g/l

Soda Ash - 20 g/l