



Manufacturer & Exporter of Reactive Dyes

REACTIVE DYES

www.dynamicdyes.com

ABOUT US

Coloring the world of textiles with high-end dyes since its inception in the year 2001, *'Dynamic Dyes and Intermediates'* is a powerful entity that has been growing successfully in the International as well as domestic market. Our rich experience and expertise of this domain has helped us to reach our customer needs with perfection. We don't only believe in delivering mere products, but we believe in delivering quality. Our quality has been the strong stimulus in accelerating the performance of our dyes, which has been appreciated by many clients globally.

Accredited with ISO 9001:2008 certification, our company is committed towards rendering quality products. We are facilitated with a well-established production unit located in the Manchester of India-Ahmedabad. Our plant is equipped with all the necessary tools required to manufacture a supreme grade product. We keep upgrading our machineries as and when new technologies are introduced in the industry. Using cutting-edge technology, we manufacture high quality reactive dyes such as Dichlorotriazine, Monochlorotriazine, High Exhaust, Bi functional and Vinyl Sulfone based Dye stuffs.

Our company is an environmental friendly organization; we have embraced ecological practices to ensure we don't cause any harm to our mother earth. Environment and safety has always been a major concern for us and provisions regarding fire, regular maintenance & safety have been strictly followed by our company. Environmental care is our priority & to ensure that, continuous monitoring of effluent treatment plant is done in our unit.
































With the aid of a research and development team, we have been innovating and developing new products for our esteemed clients. 'Quality' has always been of prime importance for us, our products undergo a series of quality check by our experts to ensure they are up to the mark of the set industry standards. We have set our priorities to institutionalize continuous improvement in production, quality, marketing, sales, logistics and various export activities so as to enable us to improve the quality of the products as a whole. Sophisticated testing instruments employed in this process helps in meticulous and accurate test results that go a long way in enforcing our quality assurance system. This has been responsible for retaining unfailing loyalty of our customers Worldwide.































Vision :




























Our corporate vision is to embrace a new paradigm of technological advancement that enables us to provide premium customer services and manufacture products that excels the expectations of the clients




















Mission :
































Our mission is to lead the industry in creating value for ourselves and our customers through dedication on standards, quality, productivity and customer satisfaction.












 "DYNAFIX" COLD BRAND DYESTUFF ("M" SERIES) 1% 4%		PRODUCT NAME	C. I. No.	General Properties			Fastness Properties					Suitability				
				Affinity / Substantivity	Solubility at 25-40°C	Dischargeability	Day Light 105-B02	Washing Fastness 105-C06	Perspiration		Hypochlorite Bleach	Exhaust 60°C	One Bath Pad Steam	One Bath Pad-Dry Steam	Printing	
									Alkaline	Acidic					Steam	Silicate
		YELLOW M8G	Yellow 86	M	80	F	5-6	4	4	4	2	+	-	-	+	-
		YELLOW M4G	Yellow 22	H	50	G	4-5	4	4	4-5	1	+	-	-	+	-
		YELLOW M3R	Orange 86	H	160	F	5-6	5	4	4	2-3	+	-	-	+	-
		YELLOW M4R	Orange 14	H	100	P	4-5	4	4	4	2	+	-	-	+	-
		GOLDEN YELLOW MR	Yellow 44	H	100	P	4-5	4	4	4	2	+	-	-	+	-
		ORANGE M2R	Orange 4	H	100	P	4-5	4	4	4	3	+	-	-	+	-
		RED M5B	Red 2	H	100	P	3-4	3-4	4	4-5	1	+	-	-	+	-
		RED M8B	Red 11	H	70	P	3-4	3-4	4	4-5	2	+	-	-	+	-
		PINK MB	Red 74	H	60	P	3-4	4-5	4	4-5	2	+	-	-	+	-
		MAGENTA MB	Violet 13	H	80	F	3-4	3-4	3-4	5	1	+	-	-	+	-
		VIOLET C4R/M4R	Violet 12	H	80	P	3-4	4	3-4	5	2-3	+	-	-	+	-
		BLUE MR	Blue 4	H	80	P	6	4	3-4	4-5	2	+	-	-	+	-
		BLUE M2R	Blue 81	H	80	P	4	4-5	3-4	4	2	+	-	-	+	-
		NAVY BLUE M3R	Blue 9	H	70	P	3-4	4	4-5	3	3	+	-	-	+	-
		TURQ. BLUE MG	Blue 140	H	130	P	4	4	4	4	2-3	+	-	-	+	-

 "DYNAFIX" HOT BRAND PRINTING DYESTUFF ("H" & "P" SERIES) 1% 4%		PRODUCT NAME	C. I. No.	General Properties			Fastness Properties					Suitability				
				Affinity / Substantivity	Solubility at 25-40°C	Dischargeability	Day Light 105-B02	Washing Fastness 105-C06	Perspiration		Hypochlorite Bleach	Exhaust 60°C	One Bath Pad Steam	One Bath Pad-Dry Steam	Printing	
									Alkaline	Acidic					Steam	Silicate
		YELLOW H4G	Yellow 18	L	120	G	5-6	5	4-5	5	1	-	+	+	+	+
		GOLDEN YELLOW HR	Orange 12	H	100	F	5	5	5	5	3	-	+	+	+	+
		ORANGE H2R/P2R	Orange 13	H	100	M	3-4	5	5	4	4	-	+	+	+	+
		RED PB	Red 24	H	80	P	4-5	4	4-5	4-5	4	-	+	+	+	+
		RED P2B	Red 45	H	80	M	3	5	4	4	3-4	-	+	+	+	+
		RED H8B/P8B	Red 31	H	100	P	4	5	4	4	3-4	-	+	+	+	+
		RED H6B/6BX	Red 76	H	60	P	4	3	4	4-5	2-3	-	-	-	-	-
		RED BROWN H4R	Brown 9	H	60	P	4	3	4	4-5	2-3	-	-	-	-	-
		MAGENTA HB/PB	Violet 46	M	100	P	3	4	4	4	1	-	+	+	+	+
		PURPLE H3R/P3R	Violet 1	M	80	P	3	4	4	3	4	-	+	+	+	+
		BLUE 5RH	Blue 13	H	80	P	5-6	5	3	3	4	-	+	+	+	+
		NAVY BLUE RX/HR	Blue 59	M	80	P	2-3	4	3	3	4	-	+	+	+	+
		NAVY BLUE P2R	Black 39	H	80	P	2-3	4	3	3	4	-	+	+	+	+
		TURQ. BLUE H5G	Blue 25	L	80	P	4	4	4	4	3	-	+	+	+	+
		BLACK HN	Black 8	M	80	P	4-5	4	4	4	3-4	-	+	+	+	+

 "DYNAFIX" HIGHLY EXHAUSTED DYESTUFF ("HE" SERIES) 1% 4%		PRODUCT NAME	C. I. No.	General Properties			Fastness Properties					Suitability				
				Affinity / Substantivity	Solubility at 25-40°C	Dischargeability	Day Light 105-B02	Washing Fastness 105-C06	Perspiration		Hypochlorite Bleach	Exhaust 60°C	One Bath Pad Steam	One Bath Pad-Dry Steam	Printing	
									Alkaline	Acidic					Steam	Silicate
		YELLOW HE4G	Yellow 81	H	80	G	4-5	4	4	4-5	2	+	(+)	-	-	-
		YELLOW HE6G	Yellow 135	H	70	G	4	4	4	4-5	2	+	(+)	-	-	-
		YELLOW HE4R	Yellow 84A	H	80	G	5	4	4	4	3	+	+	-	-	-
		GOLDEN YELLOW HER	Yellow 84	H	100	F	5	5	4	4	3	+	(+)	-	-	-
		ORANGE HER	Orange 84	H	60	P	3-4	4	4	3	3	+	-	-	-	-
		ORANGE HE2R	Orange 94	H	100	F	4	3-4	4	5	2	+	+	-	-	-
		RED HE3B	Red 120	H	80	P	4	4	4-5	4	3	+	-	-	-	-
		RED HE7B	Red 141	H	100	P	4	4	4-5	4	3	+	(+)	-	-	-
		RED HE8B	Red 152	H	100	P	3-4	4	4	4-5	2	(+)	-	-	-	-
		GREEN HE4BD	Green 19	H	80	G	4	3	4	4	2	+	+	-	-	-
		NAVY BLUE HER	Blue 171	H	80	F	4	4	5	4-5	3	+	(+)	-	-	-
		NAVY BLUE HE2R	Blue 172	H	70	F	5	4	4	5	2	+	+	-	-	-
		TURQ. BLUE HA	Blue 71	M	80	P	5	3-4	5	5	3	+	(+)	-	-	-

 "DYNAFIX" BI-FUNCTIONAL DYESTUFF ("ME" SERIES) 1% 4%		PRODUCT NAME	C. I. No.	General Properties			Fastness Properties					Suitability				
				Affinity / Substantivity	Solubility at 25-40°C	Dischargeability	Day Light 105-B02	Washing Fastness 105-C06	Perspiration		Hypochlorite Bleach	Exhaust 60°C	One Bath Pad Steam	One Bath Pad-Dry Steam	Printing	
		YELLOW ME4GL	Yellow 160	M	100	G	6	4	4-5	4-5	1	+	(+)	-	+	+
		GOLDEN YELLOW MERL	Yellow 145	M	100	G	5	3-4	4	4	1	+	(+)	-	+	+
		ORANGE ME2RL	Orange 122	H	75	P	5	4-5	4-5	4-5	3	+	+	+	+	+
		RED ME3BL	Red 194	H	100	P	5-6	4-5	4-5	4-5	3	+	+	+	+	+
		RED ME4BL	Red 195	H	150	P	5	4-5	5	5	1	+	+	+	+	+
		RED ME6BL	Red 250	H	60	P	5	4-5	5	5	1	+	+	+	+	+
		MAGENTA MEBL/XL	Non Indexed	H	80	F	4-5	4-5	4-5	5	3-4	+	+	+	-	-
		BLUE ME2RL/ME2GL	Blue 248	H	100	P	4	5	5	5	1	+	+	+	+	+
		NAVY BLUE ME2RL/ME2GL	Blue 194	H	120	F	6	5	5	5	1	(+)	(+)	(+)	(+)	(+)

 "DYNAZOL" - VS BASED DYESTUFFS ("VS" SERIES) 4% 4% Printing		PRODUCT NAME	C. I. No.	General Properties			Fastness Properties					Suitability				
				Affinity / Substantivity	Solubility at 25-40°C	Dischargeability	Day Light 105-B02	Washing Fastness 105-C06	Perspiration		Hypochlorite Bleach	Exhaust 60°C	One Bath Pad Steam	One Bath Pad-Dry Steam	Printing	
									Alkaline	Acidic					Steam	Silicate
		YELLOW FG	Yellow 42	L	100	G	4	5	5	5	1	-	+	+	+	+
		YELLOW R	Yellow 37	H	80	G	5	4-5	5	5	2-3	+	+	+	+	+
		YELLOW RNL	Orange 107	M	100	G	4	4-5	5	5	2	+	+	+	+	+
		GOLDEN YELLOW R	Yellow 201	H	100	G	4-5	4-5	4	4	1-2	+	+	+	+	+
		ORANGE 2R	Orange 7	H	80	G	4-5	4	4	4-5	1	+	+	+	+	+
		ORANGE 3R	Orange 16	H	80	G	4	4-5	4-5	4-5	4	+	+	+	+	+
		RED 5B	Red 35	L	100	G	3-4	5	5	5	1	(+)	+	+	+	+
		RED C2G	Red 106	L	100	G	3-4	5	5	5	1	(+)	+	+	+	+
		RED BS	Red 111	H	100	P	3	3-4	3-4	3	2	+	+	+	+	+
		RED RB	Red 198	H	100	F	4-5	4	4-5	4	2	+	+	+	+	(+)
		VIOLET 5R	Violet 5	M	100	P	5	4	5	5	5	+	+	+	+	(+)
		BLUE R	Blue 19	H	100	F	4-5	4	4	4-5	3	+	+	(+)	+	+
		NAVY BLUE RGB	Blue 250	L	80	P	5	4	4-5	4-5	3	+	+	+	+	+
		TURQ. BLUE G - 266%	Blue 21	H	100	G	3-4	4	4	4-5	1-2	+	+	+	+	+
		TURQ. BLUE H2GP	Blue 77	H	100	G	3-4	4	4	4-5	1	+	+	+	+	+

<div></div> <div>"DYNAZOL" - VS BASED DYESTUFFS ("VS" SERIES)</div> <div>4% 4% Printing</div>		PRODUCT NAME	C. I. No.	General Properties			Fastness Properties					Suitability				
				Affinity / Substantivity	Solubility at 25-40°C	Dischargeability	Day Light 105-B02	Washing Fastness 105-C06	Perspiration		Hypochlorite Bleach	Exhaust 60°C	One Bath Pad Steam	One Bath Pad-Dry Steam	Printing	
									Alkaline	Acidic					Steam	Silicate
		BLACK B - 150%	Black 5	VH	100	G	4-5	4	4	4-5	1	+	+	+	+	+
		BLACK WNN	Non Indexed	H	100	F	4-5	4	4-5	4-5	3	+	+	+	+	+
		BLACK HFGR	Non Indexed	H	150	G	4	4	4-5	4	3	+	+	(+)	+	+
		SUPER BLACK R	Blue 31	H	150	F	3-4	4-5	4	4	3	+	+	+	+	+
		BROWN GR	Brown 18	M	80	P	5	4	5	5	1	+	+	+	+	+

Key to Abbreviations :

Affinity / Substantivity on Cotton

L : Low

M : Medium

H : High

VH : Very High

Fastness Properties : 1 to 8 in increasing order

Dischargeability

G : Good

M : Medium

F : Fair

P : Poor

+ Suitable

(+) Fairly Suitable

– Not suitable

REACTIVE DYESTUFFS

'Dynamic Dyes and Intermediates' offer a wide range of Reactive Dyes suitable for various textile uses i.e. dyeing and printing. This pattern card gives an idea regarding application technique as shades.

Preparation of Goods for Dyeing : Cotton goods before dyeing must be evenly desized, scoured and bleached (preferably mercerized) to obtain best results. Before dyeing, goods should be absolutely free from alkali. To ensure, give a treatment with dilute Acetic acid (0.5 part/litre) to prevent premature fixation of dye.

Reactive 'M' Brand Dyes : These are dyed under cold conditions as they possess high substantivity / reactivity. They are generally employed by exhaust application.

Reactive 'H' Brand Dyes : These are less reactive / substantive and hence are generally applied by continuous methods except Turq. Blues.

Exhaust dyeing is carried at a higher temperature i.e. around 80-90°C. They possess better fastness than 'M' Brand Dyes.

Reactive Vinyl Sulphone Dyes : These are generally employed by semi continuous methods i.e. pad-batch process, although Black B. Turq. Blue G, can be economically used even under long liquor dyeing as for Knitwears.

Reactive 'HE' Brand Dyes : These are specially made for Exhaust dyeing under long liquor ratios. They are less sensitive to Glauber salt concentration, time and temperature, Dyeings produced are level and fastness characteristics are better when compared to 'M' Brand reactive dyes. These are largely employed for dyeing knitwear and cellulosic component of polyester / cellulosic blended fabrics. Exhaust dyeing is carried out in similar way as for Hot Brands. Reactive 'HE' dyes, possessing considerably higher exhaustion and fixation properties contribute to applicable cost reduction. Due to higher fixation of these dyes, the drained and washed liquors after dyeing contain much less quantity of unfixed dyes thereby minimizing water pollution.

Reactive 'ME' Brand Dyes : These are low temperature high exhaust dyes with higher grade of all round fastness properties including perspiration, light, chlorine and washing. These dyes have also an advantage of high degree of exhaustion and fixation rates, better alkali stability and leveling properties. As these dyes react with cellulosic fibers at low temperatures and can also be applied cold pad-batch methods, hence these dyes are real energy saving dyes. These dyes can be applied at low temperatures at 60°C with addition of 50 gm/l. Glauber's salt and 20 gm/l soda ash.

Dyeing

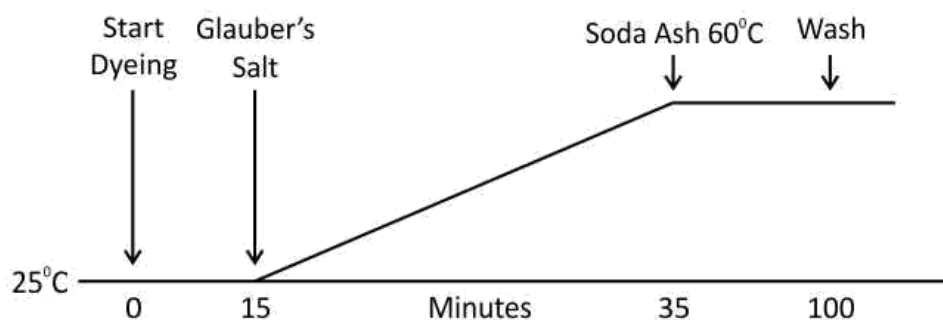
Reactive 'ME' Dyes can be used for both Exhaust Dyeing as well as for Pad-Batch Dyeing.

Exhaust Dyeing :

Two method, as described below can be used.

a) Normal Method :

The fabric is introduced into the predissolved Dye solution at 25°C. Run for 15 minutes. Add 50 gms/l Glauber's Salt. Raise temperature to 60°C in 20 minutes. Add 20 gms/l Soda Ash. Dye for 60 to 65 minutes more.



b) Constant Temperature Method :

Set the dyebath at 60°C. Enter the fabric and Dye for 10-15 minutes. Add Glauber's Salt 50 gms/l and dye for 20 minutes more. Add 20 gms/l Soda Ash, dye further for 60-65 minutes.



Dyeing Methods for 'M', 'ME', 'H' and 'HE' Dyes

1 Exhaust Methods : Dyebath is set at 30-35°C with Glauber's salt or common salt. Enter the goods, run for 10 minutes. Add the dissolved dye and run for ½ hours. Finally add the dissolved Alkali and raise the temperature (30-40°C for Cold Brands, 80-90°C for Hot Brands) Finally goods are washed off.

Salt & Alkali Requirement

Depth of Shade	Salt g/l	Soda 1:5	M.L.R. 1:10	1:20
'M' Brand				
Pale	30	5	5	3
Deep	60	20	15	10
'H' and 'HE' Brand				
Pale	40	20 gms/litre Soda Ash except for jigger dyeing where 2.5 gms/litre Caustic Soda is used.		
Deep	100			

2 Pad Batch Process : Material is padded in dyestuff solution containing alkali and wetting agent and if necessary Glauber's Salt and batch should be well covered with polythene paper to avoid drying.

'M' Brand Short 5-30 g/l dye - 4:1 Soda Ash (Equal to weight of dye and 2 g/l wetting agent) (2 hours Batch)

'M' Brand
< 30 g/l dye - 4:1 Soda - Bicarb / Soda Ash
> 30 gm/lit. dye - 2:1 Soda Bicarb / Soda Ash
Total Alkali should be equal to weight of dyestuff (5 - 30 g/l)
+2 g/l wetting agent.

Dyeing Method for Vinyl Sulphone Dyes :

Exhaust Dyeing : Dyeing is generally carried out with 15 gms/litre Trisodium phosphate as alkali. The Dyeing is started in cold with 40-50 gm/l Glauber's Salt, at 40°C. The temperature raised to 60-80°C and alkali added. Dyeing further continued for 1 hours and goods rinsed and soaped.

Pad - Batch Method Recipe for padding solution

Dyestuff	x	gms/litre
Urea	50-100	gms/litre
Sodium Silicate 140 ⁰ W	100	gms/litre
Caustic Soda 72 ⁰ TW	5	gms/litre

The Padded goods are batched for 24 hours and soaped.

Pattern Illustration : The patterns illustrated are dyed by exhaust dyeing method on mercerised cotton for 'M', 'ME' and 'HE' Brand Reactive Dyes and by Pad Batch Method for 'H' Brand Reactive dyes and Vinyl Sulphone Dyes.



Dynamic Dyes & Intermediates

(An ISO 9001:2008 Certified Company)

Manufacturer & Exporter of Reactive Dyes

Plot No. C-1-124, Phase-I, Nr. Nika Tube,
Opp. Pushpak Ind. Estate, G.I.D.C., Vatva, Ahmedabad - 382 445.

Phone : +91 - 79 - 2589 7861, 4008 4129 **Fax :** +91 - 79 - 2589 7861

E-mail : dynamicdyes@gmail.com / info@dynamicdyes.com

Website : www.dynamicdyes.com

Skype : Dynamic_dyes

Hardip Ph. : 079 - 2217 3170 M. 98240 76648