



ASHWINI DYECHM
INDUSTRIES



www.ashwinidyechem.com



COMPANY PROFILE

ABOUT US

Ashwini Dye-Chem Industry (ADI) founded in 1979 in Ahmedabad, India, ADI has emerged as a leading manufacturer of high-quality reactive dyes for the textile industry. With decades of experience, we have earned a reputation as a reliable source of superior products.

At ADI, we are committed to delivering the highest quality reactive dyes, adhering strictly to performance standards. Our dedicated team of experienced professionals strives to exceed customer expectations through innovation and outstanding customer service.

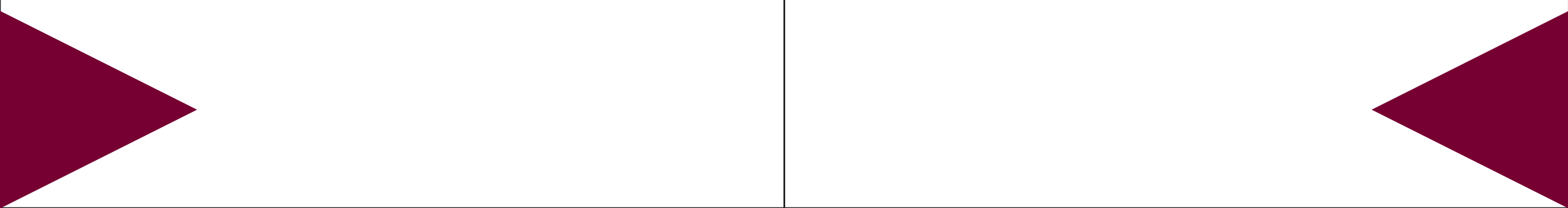
Over the years, we have become the trusted manufacturer and supplier of reactive dyes for renowned textile companies. Additionally, our products undergo thorough testing and certification by leading textile organizations and labs.

VISION

Our vision is to be the premier provider of high-quality Reactive Dyes that empower our clients to create garments that transcend expectations. We are committed to exceeding our clients' expectations through exceptional quality and service. Every single interaction is an opportunity for us to showcase our dedication and passion for delivering the best of the best.

SUSTAINABILITY

Sustainability is a key focus for us at ADI. We believe in responsible manufacturing practices, and our sustainability initiatives reflect this commitment. Through effective waste management and continuous improvements in production processes, we strive to minimize waste and reduce our environmental footprint. By choosing ADI, you align your business with eco-conscious practices, contributing to a greener future.

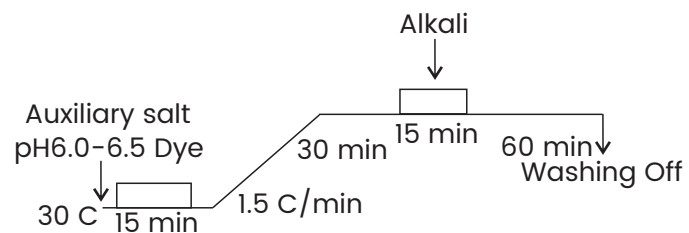


ADIFIX "ME" Dyes

These are bi-functional Reactive dyes where the vinyl sulfones group is linked to a Chromophore through a mono chlorothiazide group as a bridge link. These are low temperature high exhaust reactive dyes suitable for dyeing, padding & printing of all types of cellulosic material. These dyes are applied by exhaust dyeing method at temperature 60°C-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 alkali stability. They give highly reproducible dyeing because of better alkali stability and low sensitivity to temperature.

METHOD OF DYEING

Exhaust Dyeing : These dyes are easily soluble in water by pasting the dyestuff with cold water and there after dissolving it in (60°C) hot water with constant stirring. Exhaust dyeing is carried out at low temperature 60°C-65°C.



Salt and Alkali Requirements

% Shade	Salt g/Liter	Soda Ash g/Liter
Up to 0.5	20	10
0.5 to 1.0	35	15
1.0 to 2.0	50	15
2.0 to 4.0	60	20
Above 4%	80	20

PADDING METHOD

1. SILICATPAD - BATCH - WASH
2. ALKALIPAD - DRY - THERMOFIX





















DISCHARGING PRINTING

Typical composition is given below:

	Method(1)	Method(2)
Thickening Agent	500gms.	500 gms.
Rangolite C	120 gms.	200 gms.
Titanium Dioxide	100 gms.	100 gms.
Caustic Soda	-	50 gms.
Water	280 gms.	150 gms.
Total	1000 gms.	1000 gms.

After Discharge Printing the fabrics is processed in the usual manner.

NOTE: This information is based on our presents state of knowledge & we recommend that before using our products on plant scale production, the user should make his own taste to determine the suitability of the products for their own purpose under their operating conditions. We do not assume any responsibility for the final result obtained by the customers.

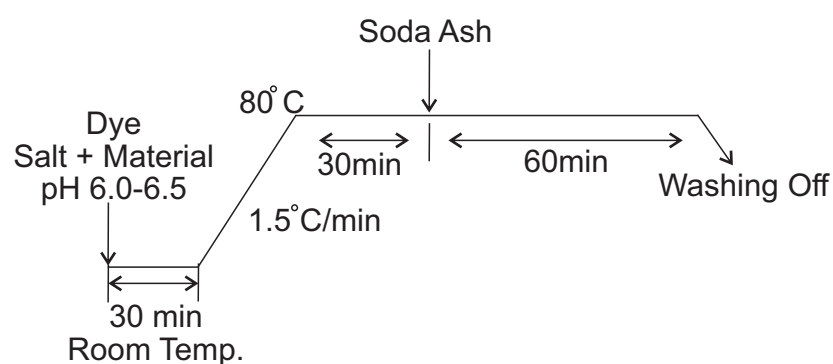
Reactive Dyes Dyeing on Cotton		ADIFIX "ME" Dyes	General Properties		
			Solubilty gms/l		Light Fastness 1:1
1%	4%		Temperature	Gms/Liter	
		Product Name			
		Red - ME3BL	50°C	100	5-6
		Red - ME4BL	50°C	100	5
		Red - ME6BL	50°C	80	5
		Red - 3BL	50°C	80	5
		Blue - ME2RL	50°C	100	4
		Blue - ME2GL	50°C	120	4-5
		Orange - ME2RL	50°C	75	5
		Yellow - MERL	50°C	100	5
		Yellow - ME4GL	50°C	120	6
		Yellow - 3RS	50°C	100	6

Fastness Properties							
Washing		Perspiration		Bleaching			
Alteration	Strain	Alkaline		Hypochlorite		Peroxide	
		Alteration	Strain	Alteration	Strain	Alteration	Strain
4-5	4	4	4	3-4	3	4	4
4-5	4-5	4	4	3	3	4	4
4-5	4-5	4	4	3-4	3-4	4	4
4-5	4-5	4	4	3	3	4	4
5	5	4	4	1	5	3	5
4-5	4-5	3	3	1	4	3	3
5	5	4	4	2	5	4	5
5	5	3-4	3-4	4	4	3-4	3-4
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5	5	3-4	3-4	4	4	3-4	3-4

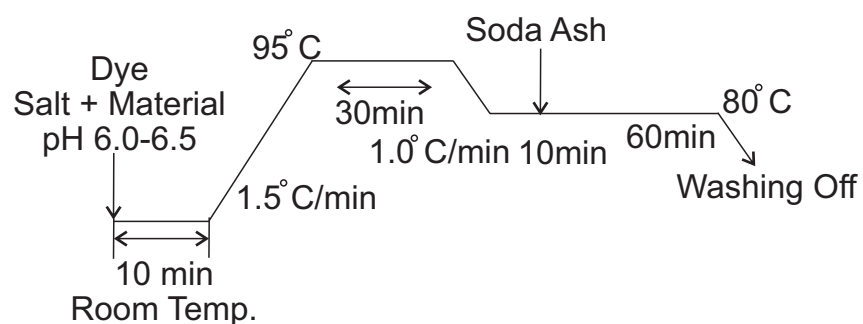
ADIFIX "HE" Dyes

"HE" i.e. BIS MONO CHLOROTRIAZIN Dyes are Reactive Dyes that are specially developed specially developed for exhaust dyeing under long liquor ratio & is less sensitive to Glauber's salt concentration, time & temperature while dyeing and hence highly suitable for hosiery, knitwear and to dye the cellulosic component of the polyester/cellulosic blend. They produce level dyeings with better fastness properties.

Exhaust Dyeing



Mercerised Cotton



Dissolved of the dyes:

The dyestuff is pasted with equal volume of cold water and then completely dissolved by stirring with warm water upto 80°C for 'HE' Brand.

Dyeing Method for 'HE' Brand:

For 'HE' Brand, set the dyebath at 40°C required quantity of dissolved dye and the goods are entered. Run for 10 minutes and required quantity of Glauber salt added. Run for further 20 minutes. Add dissolved alkali and raise the temperature to 80°C - 90°C and run for 30 to 60 minutes.

Salt and Alkali Requirements

% Shade	Salt g/Liter	Soda Ash g/Liter
Up to 0.5	30	10
0.5 to 1.0	45	15
1.0 to 2.0	60	15
2.0 to 4.0	70	20
Above 4%	90	20

Washing of the Goods: Rinse the goods thoroughly in cold water, further rinse in hot water at about 60°C and then soap at boil for 15-20 minutes and then rinse well.

Reactive Dyes Dyeing on Cotton		ADIFIX "HE" Dyes	General Properties					
			Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg
1%	4%		Product Name	Temp 30 C	Straight	30pts/1000 Common Salt	Substantivity	
		Red - HE3B	30°C	150	140	H	4	80°C
		Red - HE7B	30°C	150	150	H	4	80°C
		Red - HE8B	30°C	160	160	H	5	80°C
		Blue - HER	30°C	60	60	H	4	80°C
		Blue - HE2R	30°C	70	60	H	-	80°C
		Orange - HER	30°C	35	5	H	4	80°C
		Orange - HE2R	30°C	35	5	H	4-5	80°C
		G. Yellow - HER	30°C	80	60	H	4	80°C
		Yellow - HE4G	30°C	30	25	H	5	80°C
		Yellow - HE6G	30°C	30	25	H	4	80°C

Fastness Properties							
Day Light	Washing		Bleaching			Alkaline Perspiration	
	Alteration	Strain	Hypochlorite	Hydrogen Peroxide		Alteration	Strain
				Alteration	Strain		
4-5	5	4-5	3-4	4-5	4-5	4-5	5
4-5	5	5	3	4-5	4-5	5	4-5
4-5	5	3	3-4	4-5	4-5	5	4-5
4	5	4-5	1-2	4	4-5	4	4-5
4	4-5	3	2	3	3	4	5
4-5	5	4	4-5	4-5	4	4	4-5
3-4	4	5	4-5	4	4-5	4	4
5	5	4-5	3-4	4-5	4	4-5	4
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4-5	5	5	1-2	4	4	3	4

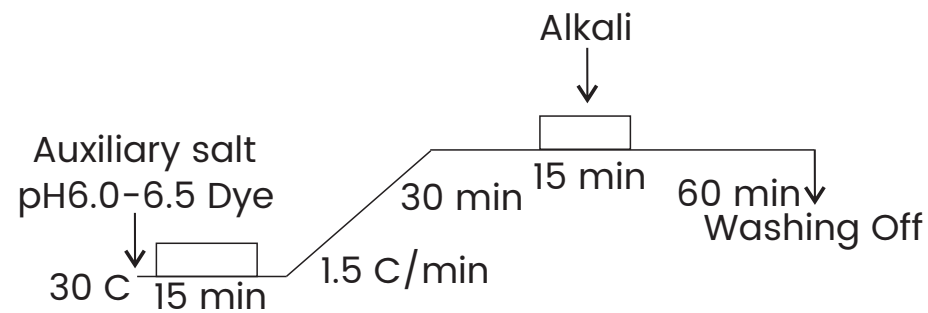
ADIZOL "VS" Dyes

This are Vinyl Sulphone reactive dyestuffs which form a chemical linkage with cellulosic material during the dyeing process & hence they give dyeing with very good light & wash fastness. This range of dyestuffs can be characterized by its suitability for padding as well as exhaust process. It is highly suitable for printing by one phase/two phase application method.

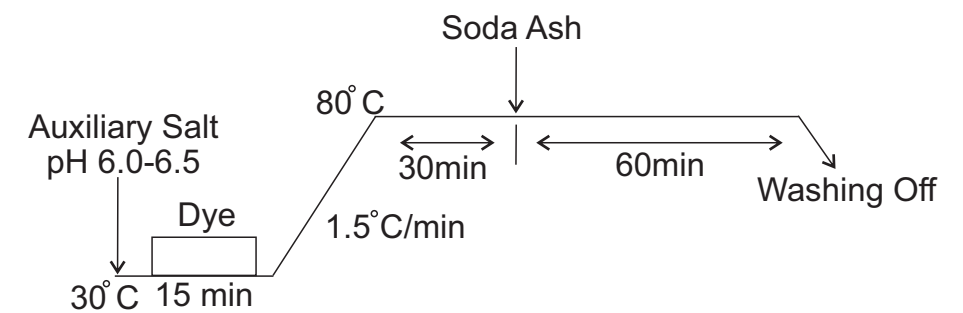
Pre-treatment of the fabrics:

Cotton goods for dyeing must be evenly desized, scoured, bleached and should be neutral in PH. It should be Preferably mercerised to obtain deep & brilliant shades.

Exhaust Dyeing























Turquoise Dyeing Method



Dyeing Procedure by Exhaustion Method:

Take Pre-Dissolved dyes and Glauber salt in the dye bath at 30°C and alkalies are added after 15 to 20 min. Raise the temperature to 60°C (except Turq. Blue G-where dyeing temp. is 80°C) in 20-30 min. and dyeing is continued for 60-90 minutes.

Know: For YELLOW-FG, RED-C2G and RED-5B using 80 g/litre Glauber's salt gives better colour yield.

Reactive Dyes Dyeing on Cotton		ADIZOL "VS" Dyes	General Properties					
			Solubility gms/l		Substantivity	Suitability		
1%	4%		Temp 30 C	Straight		Exhaust	Printing	Pad Batch Silicate
Product Name		Temp 30 C	Straight	Substantivity	Exhaust	Printing	Pad Batch Silicate	
		Yellow - FG	30°C	100	L	LS	S	S
		Yellow - R	30°C	100	M	LS	S	S
		Golden Yellow - R	30°C	100	H	S	S	S
		Golden Yellow - RR	30°C	100	L	LS	S	S
		Orange - 2R	30°C	100	H	S	S	S
		Orange - 3R	30°C	100	H	S	S	S
		Turq. Blue - G	30°C	100	H	S	S	S
		Violet - 5R	30°C	100	M	S	S	S
		Brown - GR	30°C	100	M	S	S	S
		Red - BS	30°C	100	L	LS	S	S

Fastness Properties							
Dischargeability	Day Light 1/1	Washing		Hypochlorate		Perspiration	
		Alteration	Strain	Alteration	Strain	Alkaline	
						Alteration	Strain
C	5	4-5	5	1	5	4	5
C	5	4-5	5	1	5	4	5
C	5	4-5	4-5	1	5	5	4-5
C	5	4-5	5	1	5	5	4-5
C	4-5	4-5	5	1-2	5	5	5
C	5-6	5	5	1	5	5	5
P	6	4-5	4-5	3-4	5	5	4-5
P	6-7	4	5	5	3-4	3-5	4-5
C	6	4-5	5	1	5	4	5
C	5	4-5	5	1	5	5	4-5



ADIFIX "M" Dyes

These dyes are highly reactive as compared to Hot brand dyes. These are required to be stored in cool & dry atmosphere as high temperature & humid conditions reduce the stability of M-Brand dyestuffs. Following precautions are necessary while dyeing with cold brand reactive dye.

(1) For improving solubility of dyestuffs, urea is mixed with dyestuffs before pasting with water.

(2) Material ready for dyeing should be free from alkali to avoid premature localized fixation. The material may be treated with 0.5-1.0 parts of Acetic-acid (30%) per 1000 parts of water prior to adding dye solution.

Procedure for dyeing with cold brand dyes:

Take required quantity of water (M:L=1:15) in the dye-bath & add calculated quantity of Glauber's Salt or Common Salt. Add the pre-dissolved dyestuff to the dye-bath. Now enter the goods & run of 15 to 20 min. at 30°C Add required quantity of soda ash solution & run for further 45-60 min. Wash with cold water & boil with 2gm/litre soap.

Salt and Alkali Requirements

% Shade	Salt g/Liter	Soda Ash g/Liter
Up to 0.5	30	3
0.5 to 2.0	40	4
2.0 to 4.0	50	7
Above 4.0	60	10



Preparation of Printing Paste with M-Brand Dyestuffs

M-Brand Dyestuffs	10-50 Parts
Urea	40-50 Parts
Water	525-500 Parts
Resist Salts	10 Parts
Sodium Bi Carbonate	10-15 Parts

and finally made to 1000 parts with Sodium Alginate Thickening.

First, Urea is dissolved in water at 40°C, then dyestuff is added, stirred to solution, then resist salt is added and then thickening. Stir well to make homogenous paste & lastly bicarbonate is added just before Printing. This paste cannot be stored once alkali is added. After printing goods are dried & then steamed in ager for 15 minutes and wished with cold water, soaped at boil washed and dried.



ADIFIX "P" & "H" Dyes

INTRODUCTION: Printing Dyes are fibre reactive dyes which form a chemical linkage with Hydroxy groups of Cellulose and thus gives dyeing and printing good fastness to wet treatments.

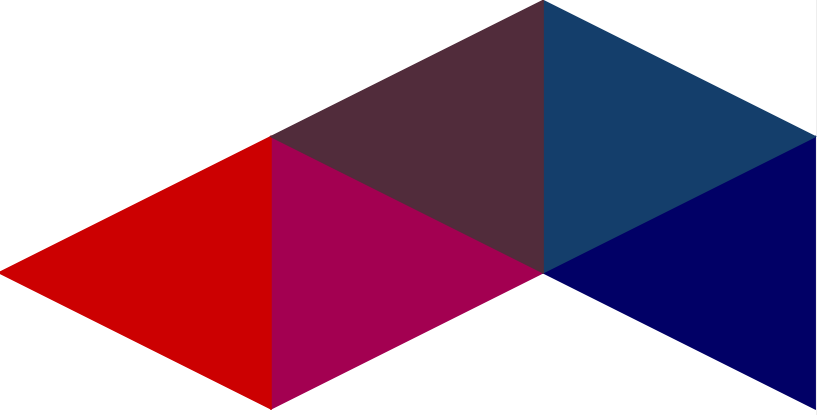
DISSOLVING OF DYESTUFF: Dyestuff is pasted with cold water and dissolved by stirring with warm water at 80°C.

Set the bath at 50°C with dissolved, dyestuff and enter the goods in it. After 10 minutes. and 60 to 100 g/lit. of Glauber salt and run for 20 minutes, and 20 g./lit. Soda Ash and 2 g/lit. Caustic Soda. Raise the temperature upto 80°C run for another 45 minutes, finally the goods are washed off and dried.

REMARK: Low substantive Dyes are not suitable by Exhaust method.

1. DIRECT STYLE OF PRINTING

H-Brand Dyestuffs	10-15 Parts
Urea	10-15 Parts
Resist Salt	10 Parts
Water	400-365 Parts
Bi-Carbonate	20-25 Parts



Finally make it to 1000 parts by adding Sodium Alginate Thickening. First, urea is dissolved in water at 80-85°C, then dyestuff is added and stirred to a homogenous paste before addition of alkali, then cool it to Room Temperature, After printing the goods are dried, steamed for 15-20 minutes, soaped at boil, washed and dried.





2. PRINTING BY SILICATE PAD BATCH METHOD

H-Brand Dye	X Parts
Hot Water (80°C)	25 Parts
Resist Salt	10 Parts
Sodium Alginate or Modified Guargum 3% Paste	Y Parts

Print, Dry and pad with silicate solution by Nip-padding, batch, cover properly with polythylene film, dwelling time 16--20 hrs. followed by Cold wash, Soap, (twice) at boil, hot wash, cold wash and dry.

SILICATE PADDING BATH

950 gms.	Sodium Silicate	50°C Be
50 gms.	Caustic Solution	40°C Be
X gms.	Water to make	103°-105°C Tw

Reactive Dyes Printing on Cotton		ADIFIX "P"&"H" Dyes	General Properties					
			Solubility gms/l			Dyeing Properties		Fixation Temp. Exhaust Dyg
1%	4%	Product Name	Temp 30 C	Straight	30pts/1000 Common Salt	Substantivity	Reactivity	
		Red - P7B	30°C	80	10	H	2-3	80°C
		Red - H8B	30°C	80	10	H	2-3	80°C
		Red - 6BX	30°C	80	40	L	2-3	60°C
		Red Brown - H4R	30°C	90	30	L	4	80°C
		Orange - P2R	30°C	150	100	M	5	80°C
		Turq. Blue - H5G	30°C	120	80	H	5	90°C
		Royal Blue - P3R	30°C	120	30	M	2-3	80°C
		Yellow - H4G	30°C	130	100	L	4	80°C
		Yellow - H7GL	30°C	120	100	L	4-5	80°C
		Golden Yellow - PR	30°C	110	50	M	5	80°C

Fastness Properties							
Day Light	Washing		Bleaching			Alkaline Perspiration	
	Alteration	Strain	Hypochlorite	Hydrogen Peroxide		Alteration	Strain
				Alteration	Strain		
4-5	4-5	5	3-4	4	4-5	4	3-4
4-5	4-5	5	3-4	4	4-5	4	3-4
6	5	5	2	3-4	4-5	4-5	5
4-5	5	4-5	4-5	5	4-5	4-5	3-4
4-5	5	5	4	4	4-5	5	4-5
5-6	5	4	3-4	2	3	4-5	3
6	5	5	1	1	5	4-5	4
6-7	5	5	1	4	5	4-5	4-5
5-6	5	4-5	1-2	4	4-5	5	4-5
6	5	5	3	4-5	5	4	5



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