



■ Mfg. & Exporters  
of Dyestuff

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BHiMANi Group

A colourful  
**imagination**  
starts with us

**Bhimafix**<sup>®</sup>

Reactive Dyes

Bhimafix ME Dyes

Bhimazol VS Dyes

Bhimafix Black Dyes

## BHiMANi Group

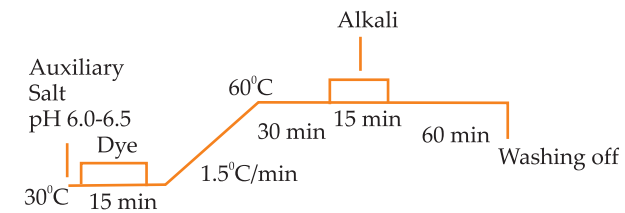
**BHIMANI GROUP** was incorporated in **1950** in the **TEXTILE CITY OF INDIA** - Ahmedabad; engaged in manufacturing of various Dyes of international standards. Being in the same business, it's the third generation that still is working and following the traditions laid by their elders. As a pioneer in the field of dyes, we have tried to keep our tradition as a **QUALITY** conscious people.

From a humble beginning we have grown into a multi faceted, multi product company due to dynamic marketing, high morals and constant quality standards. The main USP of our business has always remained the **QUALITY** of not only our products, but also of administrative activities. We have been working hard to enable our products to make their mark in global markets. It's because of these very reasons it was made possible to keep our flag aloft in National as well as International Market. Today **BHIMANI GROUP** has not only grown in our eyes but it is very much visible in our satisfied customers' eyes too.

## BHIMAFIX "ME" Bifunctional Dyes

BHIMAFIX "ME" (Medium Exhaust) i.e. BIFUNCTIONAL Dye are low temperature high exhaust Reactive Dyes suitable for Dyeing Padding and printing of all dyes of cellulosic material. These dyes offer high grade of all round fastness properties. They offer leveling properties and excellent alkalis stability. Fixation temperature of these dyes is 60°-45°C.

### Exhaust Dyeing



### Single Alkali Method

Salt and Alkali Requirements

%Dye	Common Salt (g/l)	Soda Ash (g/l)
<0.1	20	5
0.1 - 0.5	20 - 25	5 - 7
0.5 - 1.0	25 - 40	7 - 10
1.0 - 2.0	40 - 50	10 - 13
2.0 - 3.0	50 - 60	13 - 15
3.0 - 5.0	60 - 80	15 - 20
5.0 - 7.0	80 - 90	20
>7.0	100	20

### Mixed Alkali Method

Salt and Alkali Requirements

%Dye	Common Salt (g/l)	Soda Ash (g/l)	Caustic Flakes (g/l)
<0.1	20	5	0
0.1 - 0.5	20 - 25	5	0.3 - 0.38
0.5 - 1.0	25 - 40	5	0.38 - 0.45
1.0 - 2.0	40 - 50	5	0.45 - 0.6
2.0 - 3.0	50 - 60	5	0.6 - 0.75
3.0 - 5.0	60 - 80	5	0.75 - 1.0
5.0 - 7.0	80 - 90	5	1.0
>7.0	100	5	1.0

### Advantages

#### Bhimafix "ME" Dyes

- Commodity bifunctional dyes for economical shades
- Good built-up behaviour for deep shades
- Wide range of products to cover broad shade gamut
- Good wash fastness levels & good reproductibility

**Product Placement**

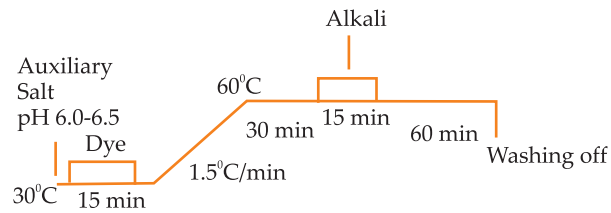
**Bhimafix "ME" Dyes**

- Light shades - Golden Yellow MERL, Yellow SDP, Red ME4BL, Blue BRF
- Medium shades - Golden Yellow MERL, Red ME4BL, Red SDP, Navy Blue ME2GL
- Deep shades - Golden Yellow MERL, Red ME4BL, Navy Blue BF
- Support dyes - Yellow ME4GL, Orange ME2RL, Scarlet MERK, Red ME3BL

**BHIMAZOL "VS" Vinyl Sulphone Dyes**

BHIMAZOL "VS" (Vinyl Sulphone) DYES are B. SULPHATOETHYL SULPH ONE Reactive Dyes possessing Vinyl sulphone as the reactive group. In presence of alkali, these dyes chemically react with the hydroxyl group of cellulose and form firm, covalent linkages. These dyes are having very good features like, good solubility even in presence of alkali, very good fastness property & suitable for resist & discharge printing very much effectively. These dyes are applied by exhaust method at the optimum temperature of 60-65°C

**Exhaust Dyeing**



**Single Alkali Method**

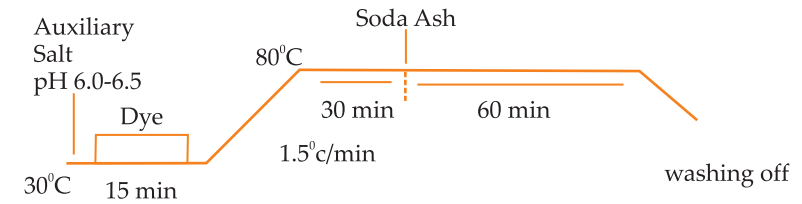
% Dye	Common Salt (g/l)	Soda Ash (g/l)
<0.1	20	5
0.1 - 0.5	20 - 25	5 - 7
0.5 - 1.0	25 - 40	7 - 10
1.0 - 2.0	40 - 50	10 - 13
2.0 - 3.0	50 - 60	13 - 15
3.0 - 5.0	60 - 80	15 - 20
5.0 - 7.0	80 - 90	20
>7.0	100	20

**Mixed Alkali Method**

Salt and Alkali Requirements

%Dye	Common Salt (g/l)	Soda Ash (g/l)	Caustic Flakes (g/l)
<0.1	20	5	0
0.1 - 0.5	20 - 25	5	0.3 - 0.38
0.5 - 1.0	25 - 40	5	0.38 - 0.45
1.0 - 2.0	40 - 50	5	0.45 - 0.6
2.0 - 3.0	50 - 60	5	0.6 - 0.75
3.0 - 5.0	60 - 80	5	0.75 - 1.0
5.0 - 7.0	80 - 90	5	1.0
>7.0	100	5	1.0

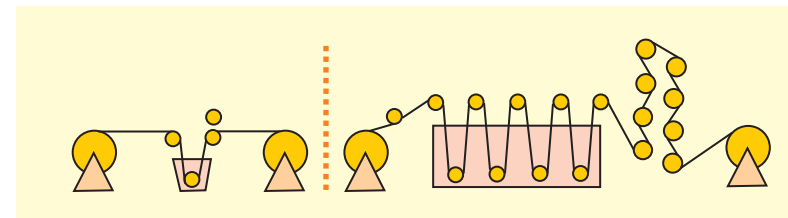
**Turquoise Dyeing Method**



**Salt and Alkali Requirements**

% Dye	Glaubers Salt (g/l)	Soda Ash (g/l)
<0.1	20	3
0.1 - 0.5	20 - 25	3
0.5 - 1.0	25 - 40	3 - 5
1.0 - 2.0	40 - 50	5 - 8
2.0 - 3.0	50 - 60	8 - 10
3.0 - 5.0	60 - 80	10 - 12
5.0 - 7.0	80 - 90	15
>7.0	100	20

**Cold Pad Batch Dyeing**



Mixing pump required  
Add 10 - 100 g/l Urea to dye liquor (necessary for solubility)

**Silicate Method**

Dye (g/l)	Sodium Silicate (38° Be)	Caustic Flakes (g/l)
<5	100 ml/l	2
10 - 20	100 ml/l	3 - 3.5
20 - 30	100 ml/l	3.5 - 4.0
30 - 40	100 ml/l	4.0 - 4.5
40 - 60	100 ml/l	4.5 - 5.0
60 - 80	100 ml/l	5.0 - 5.5
80 - 100	100 ml/l	5.5 - 7.0

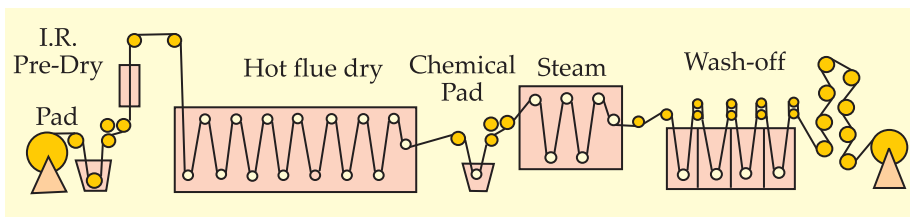
Batch 16 hrs at 25°C

**Silicate Free Method**

Dye (g/l)	Soda as (g/l)	Caustic Flakes (g/l)
20	30	2
40	30	3
20 - 30	30	4
30 - 40	30	5
40 - 60	30	6
60 - 80	30	7

Batch 24 hrs at 25°C

**Pad-Dry-Chemical Pad-Steam Method**



Pad : dye, wetting agent, anti - migrant, mild oxidant,  
IR Per-dry, dry : 110 - 130°C, Chemical Pad

**Advantages**

**Bhimazol "VS" Dyes**

- Economical multi use product range
- Range of products suitable for Discharge ground
- Broad selection available from wide shade range
- Good fastness properties

**Product Placement**

Light shades - Yellow GR, Orange 3R, Blue BB  
Medium shades - Orange 3R, Red RB, Blue BB  
Deep shades - Red RB, Black B

**Abbreviations**

Bl - Bluer Y - Yellower  
Br - Brighter S - Suitable  
Dl - Duller NS - Not suitable  
Dk - Darker CO - Cotton  
G - Greener CV - Viscose  
R - Redder

**Dischargeability**

D - Dischargeable  
F - Fair (Partial dischargeable)  
P - Poor (Non dischargeable)

**Product Placement Chart**



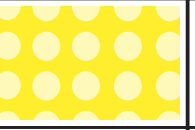






























Product	Placement	Warm exhaust	Hot exhaust	Cold pad batch	Pad dry chemical pad steam	Printing
Bhimafix "ME"	Economical warm exhaust dyeing	S		S		
Bhimazol "VS"	Commodity multi-use vinyl sulphone	S		S	S	S

Economical All Purpose Value Added

(The information contained in this SHADE CARD has been provided in good faith and to the best of our knowledge but WITHOUT WARRANTY. Consumers are requested to test the products as to their suitability for any application, use or processing.)

<b>BHIMAFIX "ME" Bifunctional Dyes</b>		<b>Product Name C.I. No.</b>	<b>Processes</b>		
			Exhaust Dyeing	Semicontinuous Dyeing	Continuous Dyeing
1%	4%				
		BHIMAFIX GOLD. YELLOW MERL *Yellow 145	S	S	NS
		BHIMAFIX YELLOW ME4GL *Yellow 160	S	NS	NS
		BHIMAFIX YELLOW SPD	S	S	NS
		BHIMAFIX ORANGE ME2RL *Orange 122	S	NS	NS
		BHIMAFIX RED ME3BL *Red 194	S	S	NS
		BHIMAFIX RED ME4BL *Red 195	S	S	NS
		BHIMAFIX RED SPD	S	S	NS
		BHIMAFIX SCARLET MERK *Scarlet 222	S	S	NS
		BHIMAFIX BLUE BRF *Blue 221	S	NS	NS
		BHIMAFIX NAVY BLUE BF *Blue 222	S	NS	NS
		BHIMAFIX NAVY SPD	S	S	S

Dischargeability	Solubility g/l		Light Fastness				Washing		Water		Perspiration E04				Rubbing		
	Water - 30°C	Salt (90 g/l) - 50°C	AATCC 16E 1/1	AATCC 16E 1/3	ISO B02 1/1	ISO B02 1/3	CO3		E01		Acidic		Alkaline		X12		
							Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Dry Rubbing	Wet Rubbing	
P	180	120	4-5	4	6	5	4-5 R	4	4-5	4-5	4-5	4-5	4-5	4-5 R	4-5	5	4
F	150	120	4	4	6	5	4-5 R	4	4-5	4-5	4-5	4-5	4-5	4-5 R	4-5	5	4
P	200	200	4-5	4	6	5	4-5 R	4	4-5	4-5	4-5	4-5	4-5	4-5 R	4-5	5	4
F	100	100	4	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5 R	4-5	4-5	4-5	4-5	4
P	100	100	4	4	4-5	4	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5 Bl	4	4-5	4
P	180	180	4	4-5	4-5	5	4-5	4-5	4-5	4	4-5 Br	4	4-5	4	4-5	4-5	
P	200	200	4	4-5	4-5	5	4-5	4-5	4-5	4	4-5 Br	4	4-5	4	4-5	4-5	
F	200	200	4-5	4	4	4-5	4-5 DI	4	4-5	4-5	4-5	4-5 R	4-5	4-5 R	4-5	4-5	4
F	120	120	4-5	4-5	6	5-6	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4	5	4
D	150	150	4	4-5	4	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	4-5
D	200	200	4	4-5	4	5	4-5	4-5	4-5	5	4-5	4-5	5	4-5	4-5	4-5	4

BHIMAZOL "VS" Vinyl Sulphone Dyes			Product Name C.I. No.	Processes		
				Exhaust Dyeing	Semicontinuous Dyeing	Continuous Dyeing
1%	4%	Discharge 4%				
			BHIMAZOL YELLOW GR *Yellow 15	S	S	S
			BHIMAZOL YELLOW FG *Yellow 42	S	NS	NS
			BHIMAZOL ORANGE 3R *Orange 16	S	S	S
			BHIMAZOL DEEP RED CD *RED MIX	S	S	S
			BHIMAZOL RED BS *Red 111	S	S	NS
			BHIMAZOL RED RB *Red 198	S	S	S
			BHIMAZOL VIOLET 5R *Violet 5	S	S	S
			BHIMAZOL T. BLUE G - 166% *Blue 21	S	S	NS
			BHIMAZOL T. BLUE G - 266% *Blue 21	S	S	NS
			BHIMAZOL BLUE BB *Blue 220	S	S	S
			BHIMAZOL BROWN GR *Brown 18	S	S	S

Dischargeability	Solubility g/l		Light Fastness				Washing		Water		Perspiration E04				Rubbing		
	Water - 30°C	Salt (90 g/l) - 50°C	AATCC 16E 1/1	AATCC 16E 1/3	ISO BO2 1/1	ISO BO2 1/3	CO3		E01		Acidic		Alkaline		X12		
							Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Dry Rubbing	Wet Rubbing	
D	200	60	4-5	4	6	5-6	4-5 R	4-5	4-5	4-5	4-5	4-5	4-5	4-5 R	4-5	5	4
D	150	150	4	4	4	4	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	4
D	100	100	4	4	4	4	4-5	4-5	4-5	4-5	4-5 R	4-5	4	4 R	4-5	5	4
D	200	200	4	4	4	4	4-5	4	4-5	4	4-5	4-5	4-5	4-5	4-5	5	4
D	100	100	4	4	4	4	4-5	4-5	4-5 Bl	4-5	4 Bl	4-5	4-5 Bl	4-5	4-5	4-5	4
P	200	150	4	4	4	4	4-5	4-5	4-5	4-5	4 Bl	4-5	4-5 Bl	4-5	5	4	
F	100	100	4-5	4	6	5-6	4-5	4-5	4-5	4-5	4 Bl	4-5	4 Bl	4	4-5	4	
F	150	150	4-5	4	6	5	4	4	4-5	4-5	4-5	4	4	4	4	4-5	4-5
F	150	150	4-5	4	6	5	4	4-5	4-5	4	4-5	4	4	4	4	4-5	4-5
F	200	150	4-5	4	6	5-6	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4
F	150	5	4-5	4-5	6	6	4	4-5	5	4-5	5	4-5	5	4-5	5	4-5	4

BHIMAFIX "BLACK" DYES		Product Name C.I. No.	Processes		
			Exhaust Dyeing	Semicontinuous Dyeing	Continuous Dyeing
1%	4%				
		BHIMAZOL BLACK B - 150% *Black 5	S	S	NS
		BHIMAZOL BLACK B - 200% *Black 5	S	S	NS
		BHIMAZOL BLACK WNN	S	S	S
		BHIMAFIX BLACK ED *Mix	S	S	NS
		BHIMAFIX BLACK DN Conc. *Mix	S	S	S
		BHIMAFIX BLACK DR *Mix	S	S	S
		BHIMAFIX ULTRA BLACK DR *Mix	S	S	S
		BHIMAFIX BLACK R/G *Mix	S	S	S
		BHIMAFIX BLACK *Mix	S	S	S
		BLACK RL *BLACK 31	S	S	S
		DIRECT BLACK VSF * BLACK 22	S	S	S

Dischargeability	Solubility g/l		Light Fastness				Washing		Water		Perspiration E04				Rubbing	
	Water - 30°C	Salt (90 g/l) - 50°C	AATCC 16E 1/1	AATCC 16E 1/3	ISO BO2 1/1	ISO BO2 1/3	CO3		E01		Acidic		Alkaline		X12	
							Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Change in colour	Stain (cotton)	Dry Rubbing	Wet Rubbing
D	200	180	4-5	4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4
D	200	180	4-5	4	4	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4
D	200	200	4	4-5	4	4-5	4-5	4-5	4-5	5	4-5	5	4-5	5	4-5	4
D	200	200	4	4	4	4	5	4-5	5	4-5	5	4-5	5	4-5	4-5	4
D	200	200	4	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4
D	200	200	4	4	4	4	4-5	4-5	4	5	4-5	5	4-5	5	4-5	4
D	200	200	4	4	4	4-5	4	4-5	4	4-5	4	4-5	4	4	4	4
D	200	200	4	4	4	4-5	4	4	4	4-5	5	4	4-5	4	4	4
D	200	200	4	4	4	4-5	4-5	4	5	4-5	5	4-5	5	4-5	4-5	4
D	200	200	4	4-5	4-5	4	4-5	4	5	4	5	4-5	5	4-5	4-5	4