

PERFECTING THE SCIENCE OF

HUES

HindPrakash

Hindactives & Hindzols



Catering to the needs of the Industry

At HindPrakash, we offer the best in terms of innovation and quality. Since inception, we have strived to offer dyestuffs and intermediates that stretch beyond functionality.

HindPrakash deals in a range of dyes like Vinyl Sulphone dyes, HE dyes, Hot Brand Printing dyes, Bifunctional dyes, Direct Dyes, Acid Dyes, Disperse Dyes, Optical Brighteners and Pigments.

All the above products are in strict compliance with the latest quality requirements with respect to performance and ecology standards. All in-house processes at HindPrakash, from the procurement of raw materials to the sale of finished products, are governed by our quality management system. Our dyestuffs are standardized within very narrow tolerances to ensure reproducible results.

We take our responsibility for people and the environment very seriously. We, at HindPrakash, apply high standards of safety and ecology and are committed to the chemical industry's Responsible Care principles. That includes issuing safety data sheets containing information on all the main health and environmental effects of our dyes and recommendations on how to handle our products safely. Our reactive dyes meet all the requirements and are compliant to major ecological standards such as GOTS.

HindPrakash has trained and experienced Technicians to deal with questions about application of Dyestuffs and they can help you select the right products, support you in application processes and ensure that you reach your goals quickly and economically with our dyes.

We conduct testing and analysis of Dyestuffs based on international test specifications, and follow responsible and sustainable production practices which are ecologically sound.

HindPrakash has a reputation of an established player in the market and with entrepreneurial skills and product excellence, has the ability to emerge as a name to reckon with, in the Dyes and Intermediates Industry.



Converse
with
colours

General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Bleaching				Perspiration				Dyeing		Fixation Temp in °C	Solubility at 50°C
	1/25	1/1	Alteration	Stain	Alteration	Stain	Hypo-chlorite		H ₂ O ₂		Acidic		Alkaline		Substantivity	Reactivity		
							Alteration	Stain	Alteration	Stain	Alteration	Stain	Alteration	Stain				
Yellow H7GL	6	6-7	5	4-5	4-5	4-5	2	-	4	4-5	4	4-5	4	4-5	H	M	60-65	80
Yellow P6G	5	6	5	5	4-5	5	1	-	4-5	5	5	5	5	5	L	M	80	100
Yellow P4G	5	6	5	5	4-5	4-5	1	-	4	5	4-5	5	4-5	4-5	L	M	80	130
G.Yellow PR	4-5	5	5	5	4-5	5	3	-	4-5	5	5	5	5	5	M	M	80	110
Orange P2R H/Conc	4	4-5	5	5	5	5	4	-	4	4-5	4	4-5	4-5	5	M	M	80	150
Red PB Conc.	4-5	5-6	5	4-5	4-5	4	3	-	4	4-5	4	4-5	4	4-5	M	L	80	80
Brill. Red P4B	4-5	5	5	4-5	4-5	4-5	3	-	4	4	4	4	4	4	M	M	80	100
Brill. Red P8B	3-4	4-5	4-5	5	4	5	3-4	-	4	4-5	4	4-5	4	4-5	H	M	80	80
Magenta PB	4	4-5	4-5	4-5	4	4	1	-	3	4	4	4	4	4	M	M	80	100
Brill. Purple P3R	5	6	5	5	5	5	2-3	-	2-3	5	4	4-5	3-4	4	M	M	80	150
Blue P3R	5	5-6	4-5	5	4-5	5	2-3	-	3	4	4-5	4	4	4	M	M	80	70
T.Blue P5G	5	5-6	4-5	4	4	3-4	2-3	-	2	3	4-5	3-4	4-5	3-4	H	M	80-85	100
Black PGR	5-6	6	5	5	5	5	2	-	3	4	4-5	4	4-5	4	M	M	80	80
Black PN	5	6	5	5	4-5	5	3	-	5	4-5	4	3	4-5	3	L	M	80	40

HOT BRAND DYES (HINDACTIVE P BRANDS)

2%

Yellow H7GL
Yellow-57



Yellow P6G
Yellow-95



Yellow P4G
Yellow-18



G.Yellow PR
Orange-12



Orange P2R H/Conc
Orange-13



Red PB Conc.
Red-24



Brill. Red P4B
Red-245



Brill. Red P8B
Red-31



Magenta PB
-



Brill. Purple P3R
Violet-1



Blue P3R
Blue-49



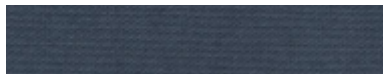
T. Blue P5G
Blue-25



Black PGR
Mix



Black PN
Black-8



Hindactive Hot Brand Dyes

Hot Brand dyes are mainly used for printing cellulose fabrics. They react with cellulose in presence of alkali, at higher temperature (print-steam method) as well as at room temperature (print-silicate method) depending upon the type of alkali used and time taken for reaction.

Specialities

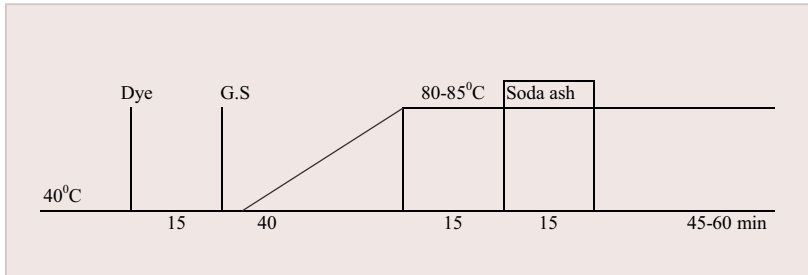
- Brilliant shades.
- Ease of application.
- Good all round fastness properties.
- Economical production of wide range of shades.
- Meets the requirements of ecology standards.

Printing procedure for Hindactive Hot Brand Dyes

Depth of shade	Up to 4%	>4%
Dye	5-40	>40
Urea	50-100	100
Water	510-425	420
Thickener	400	400
Resist Salt	10	10
Sodium Bicarbonate	25	30
Bulk to	1000 parts	

Print-dry-steam (100-102°C for 10-15 minutes). Rinse cold, rinse hot, soap at boil, hot rinse and cold rinse.

Exhaust Dyeing



Exhaust Dyeing Procedure for Hindactive Hot Brand Dyes

Weigh the exact quantity of dyestuff. Dissolve it in water and make up to the required volume (stock solution). Pipette out the above stock solution, as per shade, into the dye pot and make up to the required volume. Set the dye bath at 40°C. Put the fabric and run for 10 minutes. Then add Glauber's Salt solution and raise the temperature to 80°C. Run for 15 minutes and then add alkali solution in the dye bath and continue dyeing for another 45-60 minutes. Take out the dyeing, rinse with cold water, rinse hot, soap at boil, rinse hot, rinse cold and dry.



















Salt and Alkali Requirements

Depth of DYE%	Glauber's Salt (g/l) in Dye Bath	Soda Ash (g/l)
Up to 0.5	40	15
0.5-2.0	60	20
2.0-4.0	80	20
Above 4.0	100	25

Converse with colours

General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Perspiration				Suitability				Dyeing		Fixation Temp in °C	Solubility at 30°C	
	1/6	1/1	Alteration	Stain	Alteration	Stain	Acidic		Alkaline		Exhaust	Cont.Pad Dry Thermofix	One Bath C P B	Printing	Dischargeability	Substantivity			Reactivity
							Alteration	Stain	Alteration	Stain									
Brill. Yellow ME4GL	5	5-6	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	S	S	NS	LS	D	H	M	70	100
G. Yellow MERL	4-5	5	5	5	4-5	4-5	4-5	4-5	4	4	S	S	S	S	F	H	M	60	100
Brill. Orange ME2RL	4-5	4-5	5	5	4	4	4-5	4	4-5	4	S	LS	LS	LS	ND	M	M	60-70	75
Red ME4BL Conc.	4	4-5	5	5	4-5	4-5	4-5	4-5	4	4	S	S	S	S	ND	H	M	60	100
Red ME4B Conc.	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4	S	S	S	LS	ND	H	M	60	90
Red ME6BL	5	5	4-5	4-5	4	4	4	4	4	4	S	LS	S	LS	ND	H	M	60	80
Red BS Conc.	4	4-5	4	4-5	4	4	4	4	3	3	S	LS	S	LS	ND	H	H	60-70	70
Blue MEBF Conc.	4-5	5	5	5	4-5	4-5	4	3-4	4	3	S	S	S	S	ND	H	M	60	100
Navy Blue ME2GL	4	4-5	4-5	4-5	4	4	4-5	4-5	3-4	3-4	S	S	S	S	ND	H	M	60	80

BIFUNCTIONAL DYES (HINDACTIVES)

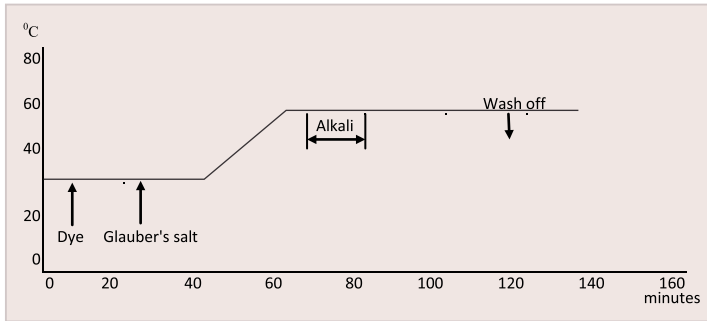
	1%	3%
Brill. Yellow ME4GL Y-160A		
G.Yellow MERL Yellow-145		
Brill. Orange ME2RL Or-122		
Red ME4BL Conc. Red-195		
Red ME4B Conc.		
Red ME6BL Red-250		
Red BS Conc. Red-111		
Blue MEBF Conc. Blue-222		
Navy Blue ME2GL Blue 194		

Hindactive Bifunctional Dyes

Specialities

- High exhaustion even at low temperature.
- Excellent all round fastness properties.
- High degree of exhaustion and fixation rates.
- Excellent levelling properties and alkali stability.
- Excellent reproducibility because of better alkali stability and low sensitivity to temperature variations.

Exhaust Dyeing



Exhaust Dyeing Procedure for Hindactive Bifunctional Dyes

Weigh the exact quantity of dyestuff. Dissolve it in water and make up to the required volume (stock solution). Pipette out the above stock solution (volume as per shade), in to the dye pot and make up to the required volume. Set the dye bath at 30°C. Put the fabric and run for 10 minutes. Then add Glauber's Salt solution in two installments and raise the temperature to 60°C. Run for 15 minutes and then add alkali solution in the dye bath and continue dyeing for another 45 - 60 minutes. Take out the dyeing, rinse with cold water, rinse hot, soap at boil, rinse hot, rinse cold and dry.

Salt and Alkali requirements

Depth of Shade% (O.W.F.)	Salt (g/l)	Soda Ash (g/l)
Up to 0.5	20	10
0.5-1.0	35	15
1.0-2.0	50	15
2.0-4.0	70	20
Above 4.0	80	20

Soaping

Minutes	Drop Dye Bath	
	10	Rinse cold
	10	Rinse Hot
	15-30	Soap at boil
	10	Rinse warm (50°C) for heavy shades
	15	Rinse cold until clear, drop bath and unload

























Hindactive Bifunctional Dyes are also Suitable for

- Silicate pad-batch
- Alkali pad-dry-thermofix
- Print-dry-steam (dye+alkali)
- Print-dry-thermofix (dye+alkali)
- Print-dry-silicate pad-batch

Converse with colours

General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Bleaching			Soda Boil		Alkaline Perspiration		Dischargeability	Dyeing		Fixation Temp in°C	Solubility at 30°C
	1/25	1/1	Alteration	Stain	Alteration	Stain	Hypochlorite	H ₂ O ₂		Alteration	Stain	Alteration	Stain		Substantivity	Reactivity		
								Alteration	Stain									
Brill. Yellow HE6G	4	4-5	5	5	4-5	5	1-2	3	3	4	4-5	4	4	D	H	M	80	70
Brill. Yellow HE4G	4-5	5	5	5	4-5	5	1-2	4-5	4-5	4	4-5	4-5	4-5	D	H	M	80	40
Golden Yellow HER	4-5	5	5	5	4-5	5	2-3	4-5	5	4	4-5	4-5	4-5	F	H	M	80	80
Orange HER	3	3-4	4	5	4	5	4-5	4	4-5	3	3	4	4	ND	H	M	80	50
Brill. Orange HE2R	3-4	4	4-5	5	4	5	3-4	4	4	3	3	3-4	4	ND	H	M	80	80
Brill. Red HE3B	4	5	5	5	5	5	1	4	4	3-4	3	4-5	5	ND	H	M	80	100
Brill. Red HE7B	3-4	4-5	5	5	4-5	4-5	3	4-5	4-5	3-4	4	5	4-5	ND	H	M	80	120
Brill. Red HE8B	4	4-5	5	4	4-5	3-4	3	4	4-5	3-4	4	4-5	4-5	ND	H	M	80	120
Blue HERD	5	5-6	4-5	4-5	4-5	4-5	3	4	4-5	3-4	4	4	4	ND	H	M	80	90
Blue HEGN	4-5	5	5	5	4-5	4-5	3	4-5	4-5	3-4	3-4	4	4	LD	H	M	80	100
T. Blue HEA	5	5-6	4	4	4	4	2-3	4-5	4	4	4	3-4	4	ND	H	M	80	90
Navy Blue HER	3-4	4	5	4-5	4-5	4-5	1-2	4	4-5	3-4	4	4	4-5	LD	H	M	80	80

HIGH EXHAUST DYES (HINDACTIVES)

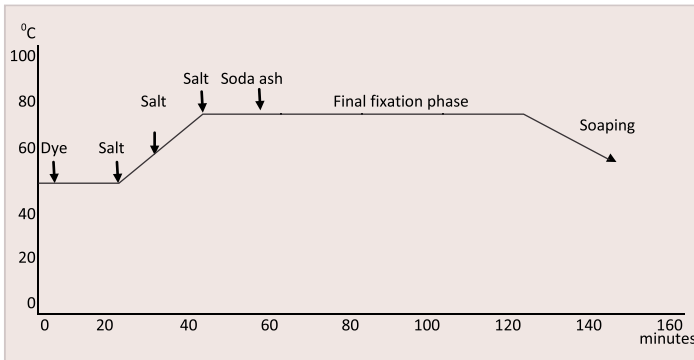
	1%	3%
Brill. Yellow HE6G Yellow-135		
Brill. Yellow HE4G Yellow-105		
G. Yellow HER Yellow-84A		
Orange HER Orange-84		
Brill. Orange HE2R		
Brill. Red HE3B Red-120		
Brill. Red HE7B Red-141		
Brill. Red HE8B Red-152		
Blue HERD Blue-160		
Blue HEGN Blue-198		
T. Blue HEA Blue-71		
Navy Blue HER Blue 171		

Hindactive HE Dyes

Specialities

- Economical dyes for standard requirements.
- Maximum reproducibility and level dyeing in difficult dyeing conditions.
- Very reliable application in exhaust dyeing.
- Excellent levelling properties.
- Very good results for critical articles and dyeing conditions, eg: CV, CEL/elastomeric fabrics, garment dyeing, articles with poor dye penetration.
- Low sensitivity to dyeing parameters when dyeing PES/CEL blends.
- Meets the requirements of ecology standards.

Exhaust Dyeing



Salt and Alkali Requirements

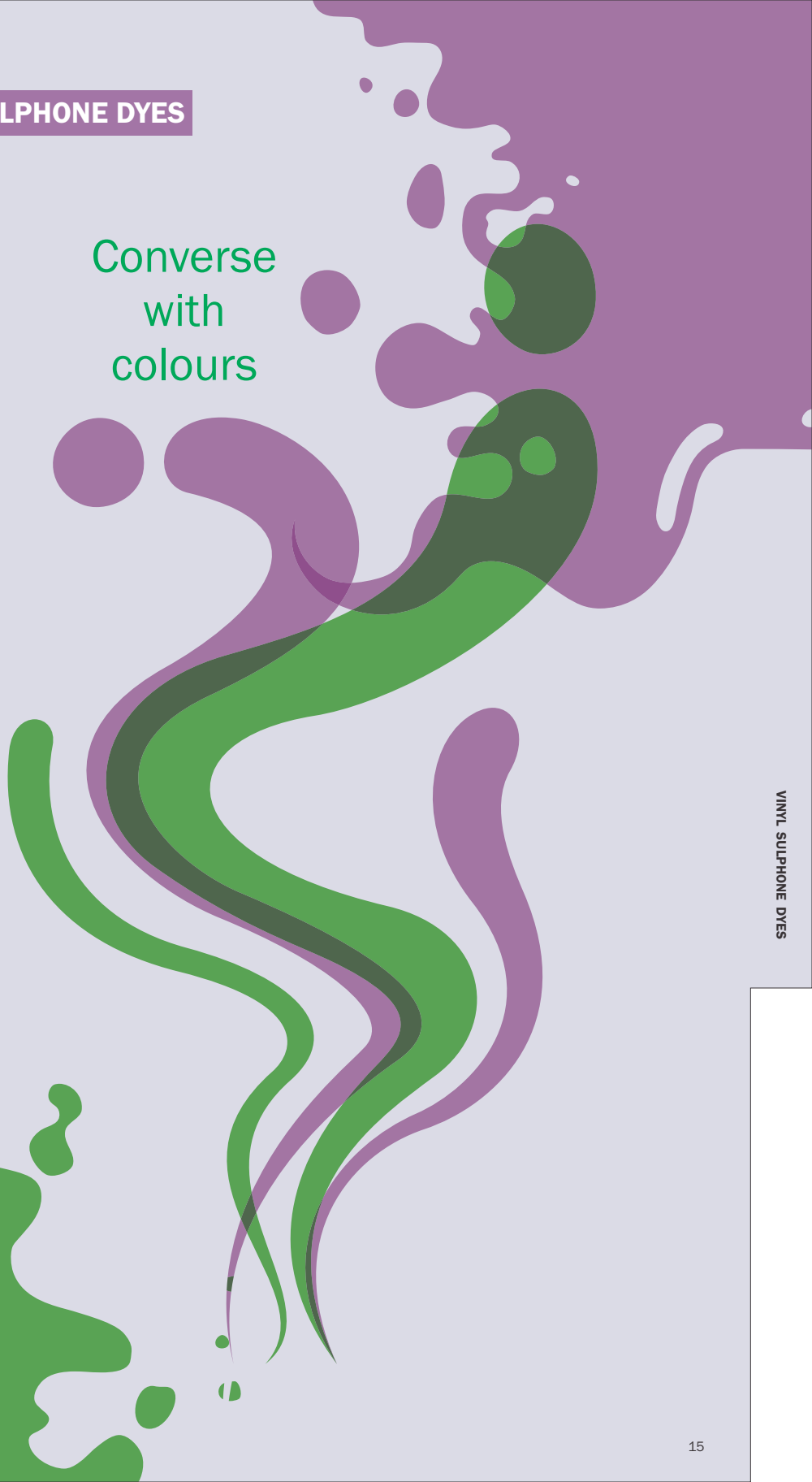
Depth of Shade% (O.W.F.)	Salt (g/l)	Soda Ash (g/l)
Up to 0.5	30	10
0.5 - 1.0	45	15
1.0 - 2.0	60	15
2.0 - 4.0	70	20
Above 4.0	90	20

Soaping

Minutes	Drop Dye Bath	
	10	Rinse cold
	10	Rinse Hot
	15-30	Soap at boil
	10	Rinse warm (50°C) for heavy shades
	15	Rinse cold until clear, drop bath & unload

Thorough washing and efficient soaping are vital for optimum fastness

Converse
with
colours



General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Hypo-chlorite		Suitability			Perspiration				Dischargeability	Dyeing		Solubility at 30°C
	1/6	1/1	Alteration	Stain	Alteration	Stain	Alteration	Stain	Exhaust	Pad Batch Silicate	Printing	Acidic		Alkaline			Substantivity	Reactivity	
												Alteration	Stain	Alteration	Stain				
Yellow FG	4-5	5	4-5	5	4	5	1	5	LS	S	S	4	5	4	5	D	L	L	100
Yellow GR	4-5	5-6	4	5	4	4-5	1	5	S	S	LS	5	5	5	4-5	D	H	H	100
G.Yellow R	4-5	5	4-5	4-5	4	4-5	1	5	S	S	S	4-5	4-5	4-5	4-5	D	H	H	100
G.Yellow HRNL	4-5	5	4-5	4-5	4	4	1	5	S	S	S	4-5	4-5	4-5	4-5	D	H	H	100
Orange 2R	4	4-5	4-5	5	4-5	5	1-2	5	S	S	S	5	5	5	5	D	H	H	100
Orange 3R	5	5	5	5	5	5	1	5	S	S	S	5	5	5	5	D	H	L	80
Red 5B	5	5-6	4	4-5	4	4-5	1	4	LS	S	S	4-5	4-5	4-5	4-5	D	L	L	100
Red RB	4-5	5	5	5	4-5	4-5	1	4-5	S	S	S	5	4	5	4-5	ND	H	H	100
Brown GR	5	5-6	4-5	5	4	4-5	1	4-5	S	S	S	4	4-5	4	4-5	D	M	H	100
Violet 5R	5	5-6	4-5	5	4	4-5	5	3-4	S	S	S	4	4-5	4	4-5	LD	H	H	100
Blue R Conc.	5	5-6	5	4-5	4	3-4	3-4	5	S	NS	S	5	5	5	5	LD	H	M	100
T.Blue G	4-5	5	4-5	4	4	4	3-4	5	S	S	S	4-5	4-5	4	4	LD	H	H	100
T.Blue H2GP Conc.	4-5	5	4-5	4	4	4	3-4	5	S	S	S	4-5	4-5	4	4	LD	H	H	100

VINYL SULPHONE DYES (HINDZOLS)

	1%	3%
Yellow FG Yellow-42		
Yellow FG H/Conc. Yell-42		
Yellow GR Yellow-15		
G.Yellow R Yellow-201		
G.Yellow HRNL Orange-107		
Orange 2R Orange-7		
Orange 3R Orange-16		
Red 5B Red-35		
Red RB Red-198		
Brown GR Brown-19		
Violet 5R Violet-5		
Blue R Conc Blue-19		
T.Blue G Blue-21		
T.Blue H2GP Conc. Blue-21		

Hindzol VS Dyes

Specialities

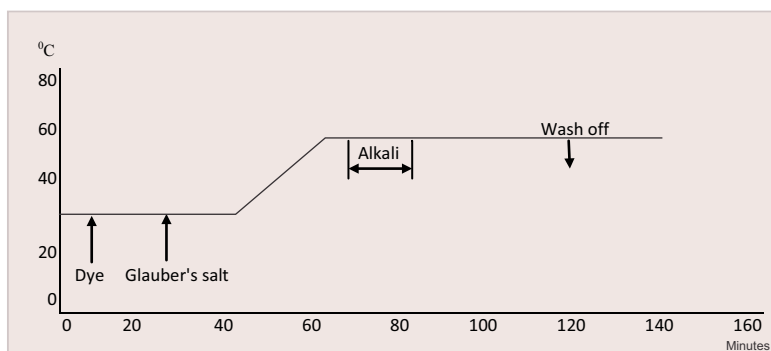
- Excellent solubility, substantivity and fastness properties.
- Economical dyes for exhaust, cold pad batch and continuous processes.
- Wide applicability for dyeing yarns, loose stock, fabrics knitted and blends.
- Selection of dyes for dischargeable dyeings.
- Meets the requirements of ecology standards.

Hindzol Blacks

Specialities

- Wide range of dyes for black and navy shades.
- Economical due to high tinctorial values.
- High exhaustion and better fixation properties results in low effluent cost.
- Excellent reproducibility.
- Versatile application.
- Very good alkali stability.

Exhaust Dyeing



Exhaust Dyeing Procedure for Hindzol Vinyl Sulphone & Black Dyes

Weigh the exact quantity of dyestuff. Dissolve it in water and make up to the required volume (stock solution). Pipette out the above stock solution (volume as per shade), in to the dye pot and make up to the required volume. Set the dye bath at 30°C. Put the fabric and run for 10 minutes. Then add Glauber's Salt solution in two installments and raise the temperature to 60°C. Run for 15 minutes and then add alkali solution in the dye bath and continue dyeing for another 45 - 60 minutes. Take out the dyeing, rinse with cold water, rinse hot, soap at boil, rinse hot, rinse cold and dry.

Salt and Alkali Requirements

Depth of Shade% (O.W.F.)	Salt (g/l)	Soda Ash (g/l)
Up to 0.5	20	10
0.5-1.0	35	15
1.0-2.0	50	15
2.0-4.0	60	20
Above 4.0	80	20

Dyeing processes, using Blue R Conc. self, and in combination with Brill. Yellow ME4GL are best carried out with Glauber's salt. A salt concentration of 50 g/l should not be exceeded. As a safety precaution it is also recommended that Glauber's salt be used with Phthalocyanine Blues, such as T. Blue G & T. Blue H2GP Conc., especially in combination with Brill. Yellow ME4GL. For VS dyes, the dyeing temperature is 45-60°C, but for Phthalocyanine Blues, a dyeing temperature of around 80°C is required.

Soaping

Minutes	Drop dye bath	
	10	Rinse cold
	10	Rinse Hot
	15-30	Soap at boil
	10	Rinse warm (50°C) for heavy shades
	15	Rinse cold until clear, Drop bath & unload

Cold pad-Batch Dyeing

Padding at Room temperature (around 25°C)

Dyestuff	x parts
Urea	100 parts
Alkali mixture solution g/l (or ml/l)

Prepare the dyestuff solution by dissolving it in water. Sprinkle urea in the dye solution and make up to 80 parts of the final volume with water. Temperature should be around 20-30°C. Then add the alkali mixture 20 parts and make up the final volume to 100 parts.

Addition of alkali mixture should be done just before the padding.

Pick up for cotton 70-75%

Pick up for viscose 80-90%

After padding, batch it for overnight, or say about 16 hrs (24 hrs for Phthalocyanines) and take for washing in the following order. Rinse cold, rinse hot, soap at boil, hot rinse and finally cold rinse.

Alkali mixture

Type of Sodium silicate		Sodium silicate Quantity required		Quantity of Dye Used					
°Be	Weight ratio Na2O: SiO2	g/l	ml/l	Up to 20 gpl	Up to 30 gpl	Up to 40 gpl	Up to 50 gpl	Up to 60 gpl	Up to 100 gpl
				Caustic Soda Solution 38°Be (32.5%) in ml/l Required in Addition to Sodium Silicate					
37-40	1:3.3	130	95	23.5	28.5	28.5	33.5	33.5	38.5
40-42	1:3.3	110	80	23.5	28.5	28.5	33.5	33.5	38.5
48-50	1:2.6	100	65	15	20	20	25	25	30
58-60	1:2.1	90	55	6	11	11	16	16	21

Method for Discharge Printing

Discharge Recipe

Rangolite C	120-150g
Titanium dioxide 1:1	100g
Sodium carbonate	60g (or Potassium Carbonate 80-140g)
Water	320-290g
Thickening	400g
Total	1000g





























Printing Procedure

Take the fabric dyed with dischargeable dye, and print with the above Rangolite paste. Dry it in an oven at about 60°C temperature. Take out the print, cool it, and steam for 8-12 minutes & wash.

Converse with colours

General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Hypoc-hlorite		Suitability			Perspiration				Dischargeability	Dyeing		Solubility at 30°C
	1/6	1/1	Alteration	Stain	Alteration	Stain	Alteration	Stain	Exhaust-Dyeing	Pad batch-Silicate	Printing	Acidic		Alkaline			Substantivity	Reactivity	
												Alteration	Stain	Alteration	Stain				
Black BL	4-5	5	4-5	4-5	4-5	4-5	1	5	S	S	S	4-5	4	4-5	4	D	H	H	100
Black B New	4-5	5	4-5	4-5	4-5	4-5	1	5	S	S	S	4-5	4	4-5	4	D	H	H	100
Black B	4-5	5	4-5	4-5	4-5	4-5	1	5	S	S	S	4-5	4	4-5	4	D	H	H	100
Black B Conc.	4-5	5	4-5	4-5	4-5	4-5	1	5	S	S	S	4-5	4	4-5	4	D	H	H	100
Black B Crude	4-5	5	4-5	4-5	4-5	4-5	1	5	S	S	S	4-5	4	4-5	4	D	H	H	100
Black SNN	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Black LNN	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Black HJ	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Black HDN	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Black WXN U/Conc.	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Super Black G	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Super Black R	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Black LXN	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100
Black LXPN	4	4-5	4-5	4-5	4-5	4	1	5	S	S	S	5	4-5	5	4-5	D	H	H	100

BLACK SERIES DYES (HINDZOL BLACKS)

	1%	3%
Black BL C.I. Black-5		
Black B New C.I. Black-5		
Black B C.I. Black-5		
Black B Conc. C.I. Black-5		
Black B Crude C.I. Black-5		
Black SNN Mix		
Black LNN Mix		
Black HJ Mix		
Black HDN Mix		
Black WXN U Conc Mix		
Super Black G Mix		
Super Black R Mix		
Black LXN Mix		
Black LXP Mix		

Converse with colours















Hindzol LX Dyes

General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Hypo-chlorite		Alkaline Perspiration		Rubbing		Dischargeability	Dyeing		Solubility at 50°C
	1/6	1/1	Alteration	Stain	Alteration	Stain	Alteration	Stain	Alteration	Stain	Dry	Wet		Substantivity	Reactivity	
G. Yellow LX	5		4-5	4-5	4	4	1-2	-	4-5	4-5	4-5	4	F	H	M	100
Red LX	5		5	5	4-5	4-5	2	-	4-5	4-5	4	4	ND	H	M	100
Ultracarmine LX	4-5		5	4-5	4-5	4	2-3	-	4-5	4	4-5	3-4	LD	H	H	100
Blue LX	5		4-5	4-5	4-5	4-5	1	-	4-5	4	4-5	4	F	H	M	100
Navy Blue LX	4		4-5	5	4-5	5	2	-	5	4	5	4	F	H	M	80
Deep Black LX	5		4-5	4-5	4-5	4-5	1	-	4-5	4-5	4-5	4	D	H	H	100







Hindzol EX Dyes

General Properties	LIGHT		Wash ISO 3		Wash ISO 4		Perspiration				Suitability				Dischargeability	Dyeing		Fixation Temp in°C	Solubility at 30°C
	1/6	1/1	Alteration	Stain	Alteration	Stain	Acidic		Alkaline		Exhaust	Cont. Pad Dry Thermofix	One Bath C P B	Printing		Substantivity	Reactivity		
							Alteration	Stain	Alteration	Stain									
Yellow EX	4-5	5	5	5	4-5	4-5	4-5	4-5	4	4	S	S	S	S	F	H	M	60	100
Red EX	4	4-5	5	5	4-5	4-5	4-5	4-5	4	4	S	S	S	S	ND	H	M	60	100
Blue EX	4-5	5	5	5	4-5	4-5	4	3-4	4	3	S	S	S	S	ND	H	M	60	100

LX SERIES DYES (HINDZOLS)

	1%	3%
G.Yellow LX		
Red LX		
Ultracarmine LX		
Blue LX		
Navy Blue LX		
Deep Black LX		

EX SERIES DYES (HINDZOLS)

	1%	3%
Yellow EX		
Red EX		
Blue EX		

Hindzol LX Dyes

Specialities

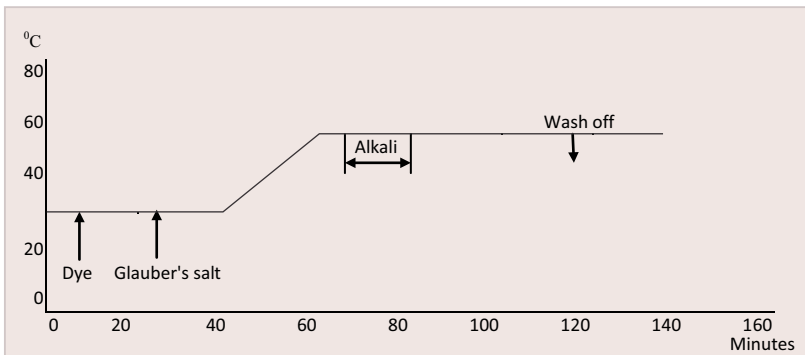
- Primarily for standard articles, where low recipe costs are important.
- Economical.
- Very good build-up in deep shades.
- Suitable for Exhaust, Cold pad batch and continuous processes.
- Meets the requirements of ecology standards

Hindzol EX Dyes

Specialities

- Maximum reproducibility in critical trichromatic shades.
- Very reliable application in exhaust dyeing.
- Good levelling properties.
- Easy to wash off.
- Meets the requirements of ecology standards.

Exhaust Dyeing



Exhaust Dyeing Procedure for Hindzol LX & EX dyes

Weigh the exact quantity of dyestuff. Dissolve it in water and make up to the required volume (stock solution). Pipette out the above stock solution (volume as per shade), in to the dye pot and make up to the required volume. Set the dye bath at 30°C. Put the fabric and run for 10 minutes. Then add Glauber's Salt solution in two installments and raise the temperature to 60°C. Run for 15 minutes and then add alkali solution in the dye bath and continue dyeing for another 45 - 60 minutes. Take out the dyeing, rinse with cold water, rinse hot, soap at boil, rinse hot, rinse cold and dry.

Salt and Alkali Requirements

Depth of Shade% (O.W.F.)	Salt (g/l)	Soda Ash (g/l)
Up to 0.5	20	10
0.5-1.0	35	15
1.0-2.0	50	15
2.0-4.0	60	20
Above 4.0	80	20

Cold pad-Batch Dyeing

Padding at Room temperature (around 25°C)

Dyestuff x parts
 Urea 100 parts
 Alkali mixture solution g/l (or ml/l)

Prepare the dyestuff solution by dissolving it in water. Sprinkle urea in the dye solution and make up to 80 parts of the final volume with water. Temperature should be around 20-30°C. Then add the alkali mixture 20 parts and make up the final volume to 100 parts.

Addition of alkali mixture should be done just before the padding.

Pick up for cotton 70-75% & Pick up for viscose 80-90%

After padding, batch it for overnight, or say about 16 hrs (24 hrs for Phthalocyanines) and take for washing in the following order. Rinse cold, rinse hot, soap at boil, hot rinse and finally cold rinse.

Alkali mixture

Type of Sodium silicate		Sodium silicate Quantity required		Quantity of Dye Used					
°Be	Weightratio Na ₂ O: SiO ₂	g/l	ml/l	Up to 20 gpl	Up to 30 gpl	Up to 40 gpl	Up to 50 gpl	Up to 60 gpl	Up to 100 gpl
				Caustic Soda Solution 38°Be (32.5%) in ml/l Required in Addition to Sodium Silicate					
37-40	1:3.3	130	95	23.5	28.5	28.5	33.5	33.5	38.5
40-42	1:3.3	110	80	23.5	28.5	28.5	33.5	33.5	38.5
48-50	1:2.6	100	65	15	20	20	25	25	30
58-60	1:2.1	90	55	6	11	11	16	16	21



HindPrakash

HINDPRAKASH HOUSE

Plot No. 10/6, Phase-I, GIDC, Vatva,
Ahmedabad - 382 445, Gujarat, INDIA
Ph. +91 79 3982 7000(10 lines)
Fax. +91 79 3892 7096
E-mail: info@hindprakash.com
www.hindprakash.com