



CAB CHEMICALS



DIRECT DYES

CAB DYES ON COTTON

1. INTRODUCTION

CAB CHEMICALS offers a wide range of direct dyes for coloration cellulosic material. They are used for dyeing cotton, wool, silk viscose rayons, jute blends and union fabrics containing the cellulosic fibre using conventional equipment, for example package dyeing machine, winches, jigger and padding machines.

2. DIRECT DYESTUFFS

Chlorantine dyes have, for many years, been used successfully for dyeing cellulosic fibres, specially for high standards of light fastness. The range of Chlorantine dyes is very comprehensive & is particularly suitable for dyeing of polyester/cellulosic blends in one bath application. The wet fastness properties, after application of dye fixing agent satisfy present day market requirements.

FEATURES

1. Eco-friendly dyes.
2. Compact range.
3. High exhaustion
4. Easy to apply
5. Good to very good light fastness & moderate to good wet fastness
6. No catalytic fading in green shades
7. Good compatibility
8. Short dyeing cycle
9. Good levelling properties and low sensitivity to variations in liquor ratio
10. Can be stripped easily

BENEFITS

- Can be safely applied on textiles for exports.
- Reduced inventory costs.
- High yield leading to economy.
- Improved reproducibility
- Negligible salt load in effluent.
- Reduced dye content in effluent.
- No special machinery required.
- Reduced redyeings.
- Does not need skilled staff/labour.
- Most of the end use requirements are met with proper selection of dyes resulting in versatility of application.
- No quality complaints from customer
- Wide shade with less inventory
- Ease of dye selection
- Ease of recipe formulation.
- Increased productivity
- Trouble-free colouration
- Less redyeings.
- Timely delivery
- Easier batch correction.

3. PREPARATION OF GOODS

It is necessary to remove all impurities from grey yarns or fabric to ensure level dyeing, good penetration of dyestuff and maximum brightness of the shade. Size may be removed by boiling the goods in alkaline detergent solution. In case of bleached goods, it is advisable to wet the material with a suitable wetting agent, 0.75 g/l in hot and then it is rinsed in water.

4. DYEING METHODS

Two dyeing methods are recommended.

Dyeing Method No.1 :

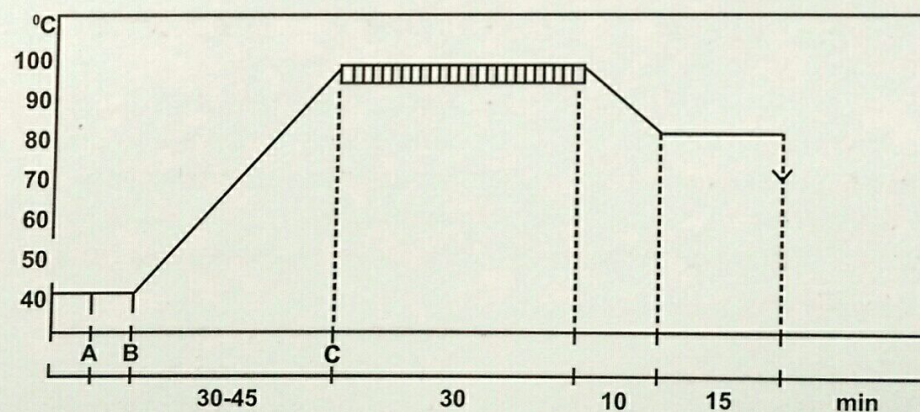
The dye bath is prepared using

X %	Dyestuff
0.5 - 2.00 %	Soda ash and
5.0 - 30.0 %	Calcined Glauber's salt or common salt

The dyeing is started at 50°C, the temperature is raised to 90°-95°C. and the material is boiled for 45-60 minutes. The addition of salt should be made in gradual stages.

Dyeing Method No.2 :

Same as method No.1, but without addition of Soda ash. This method is generally used which is described as



A :	x%	CAB DYE
B :	1-8 g/l	Anhydrous Glauber's Salt
C :	4-32 g/l	Anhydrous Glauber's Salt

- ☐ Set the Dye bath at 40°C with required amount of water and dye.
- ☐ Run for 10 minutes and add Anhydrous Glauber's Salt (B)
- ☐ Enter the goods and run for 10 minutes.
- ☐ Raise the temperature to boil within 30 to 45 minutes.
- ☐ Add Anhydrous Glauber's Salt (C) and continue the dyeing for 30 minutes.
- ☐ Decrease the temperature to 80°C within 10 minutes and continue the dyeing for 15 minutes.
- ☐ Drain the dye bath at 70°C. Give two cold washes and dry.
- ☐ If required, treatment of cationic dye fixing agent may be given to improve the fastness properties.















NOTE : High dye yield & the best reproducibility can only be achieved by a process-controlled cooling & holding phase at 80°C















Shading : Cool to 70°C, add the shading dye, raise the temperature to 90°C in 15 minutes & treat as usual








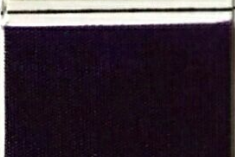






5. ILLUSTRATION





The shades shown in the shade card were prepared on unmercerised cotton fabrics.

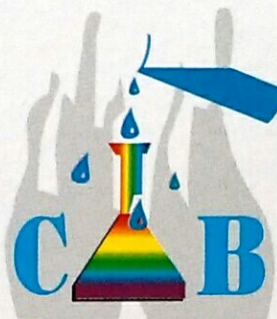
(The information in this shade card is given in good faith but without warranty, freedom from rights must not be assumed.)

DIRECT DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON COTTON		DYES (C.I. GENERIC NAME)	LIGHT	WASHING	PERSPIRATION	SOLUBILITY G/L
0.5%	2.0%					
		DIRECT LEMON YELLOW CFG/6G DIRECT YELLOW 8	2	2-3	2-3	40
		DIRECT YELLOW 3GX DIRECT YELLOW 6	6	3	2	60
		DIRECT FAST LEMON YELLOW 5GLL DIRECT YELLOW 44	5	3-4	4-5	60
		DIRECT FAST SUN YELLOW RCH DIRECT YELLOW 99	4	2	2	60
		DIRECT BRILL. YELLOW PY DIRECT YELLOW 4	5	2	2	40
		DIRECT CRYSOHENINE GCH DIRECT YELLOW 12	5	1	1	40
		DIRECT ORANGE TGLL DIRECT ORANGE 34	6	7	2-3	80

DIRECT DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON COTTON		DYES (C.I. GENERIC NAME)	LIGHT	WASHING	PERSPIRATION	SOLUBILITY G/L
0.5%	2.0%					
		DIRECT ORANGE TGLL DIRECT ORANGE 39	6-7	2-3	4-5	80
		DIRECT ORANGE SE DIRECT ORANGE 26	3	4	2-3	50
		DIRECT FAST RED 12B DIRECT RED 31	2	2	3	60
		DIRECT FAST SCARLET 4BS DIRECT RED 23	3-4	2	3-4	60
		DIRECT FAST RED 5BL DIRECT RED 81	4-5	3-4	3-4	70
		DIRECT ROSE RR DIRECT RED 227	4-5	4-5	5	90
		DIRECT SKY BLUE FF DIRECT BLUE 15	2	3	3	50

DIRECT DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON COTTON		DYES (C.I. GENERIC NAME)	LIGHT	WASHING	PERSPIRATION	SOLUBILITY G/L
0.5%	2.0%					
		DIRECT FAST BLUE GLL DIRECT BLUE 71	5-6	2-3	2	60
		DIRECT FAST GREEN BLL DIRECT GREEN 26	4-5	3-4	2	60
		DIRECT GREEN 2BN DIRECT GREEN 96	4	1-2	2	80
		DIRECT VIOLET MB DIRECT VIOLET 9	2-3	2	2-3	40
		DIRECT HELLO B DIRECT VIOLET 51	4	2-3	2-3	60
		DIRECT BROWN MN ---	5	1-2	1-2	60
		DIRECT BROWN BRLL-M ---	4-5	3-4	3-4	70

DIRECT DYES		CAB DYES	FASTNESS PROPERTIES			
SHADE ON COTTON		DYES (C.I. GENERIC NAME)	LIGHT	WASHING	PERSPIRATION	SOLUBILITY G/L
0.5%	2.0%					
		Direct Black VSF600 Direct Black 22	4-5	3-4	3-4	45
		Direct Fast Gray RLN Direct Black 56	4-5	2	2	50



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Mfg. Dyes & Chemicals

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