

(B) Continuous and semi-continuous dyeing methods of CHROMA DIRECT DYES.

There is two stages of treatment in these methods—padding and fixing of dyes on the materials.

(1) Pad-jig

Pad the material at room temperature in a bath containing

CHROMA DIRECT DYES	X
Wetting agent	1-2 g/l
Urea	100-200 g/l
Sodium alginate	1-2 g/l

In order to minimize "Ending", the following method could be applied to improve it:

Pick up = 70-80 %

Padding trough: as small as possible

Dipping time : as short as possible

Padding temperature: at low temperature but in case of heavy depth, may heat up to 60-80°C. Urea: for heavy shade, it is better to add less than 200 g/l of urea.

Sodium alginate: it is necessary when intermediate drying carried out after padding, an addition of 1-2 g/l sodium alginate into the padding liquor.

The dyes are fixed in a hot jigger containing 20-50 g/l Glauber's salt. The jigger is heated up to around 95°C and the temperature is kept steady for 15-40 minutes.

(2) Pad-roll cold

Pad the material at room temperature as (1) and stock the rolled material for 12-24 hours at room temperature, rotating slowly.

Rinse cold.

(3) Pad-steam

Pad the material at room temperature as (1) the fabric is led directly to a steamer filled with saturated vapor in order to fix dye on the fabric, steaming is carried out at 100~103°C for 1-8 minutes.

3. Fastness

Fastness Standard	
Light	JIS L0842(carbon arc)
Washing	CNS 1494A-2(50°C, 122°F)X30min
	Upper: Change in shade
	Medium: Staining on fiber
	Lower : Staining on nylon

4. Remarks

R: Red	B: Blue	Y: Yellow
G: Green	C: Clear	



DIRECT DYES
高級直接染料

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CHROMA DIRECT Dyestuffs	Color Sample	Dyeing depth (% O.W.F.)	C.I.NO.(Direct)	S.D.C Classification	Solubility (80°C/176°F, g/L)		Fastness (fixing treatment)		Change in shade by fixing treatment
					Light	Washing (50°C/122°F)	Light	Washing (50°C/122°F)	
Supra Yellow PG		2	Y 142	B	50	4	4	4	4-5
Supra Yellow RL		2	Y 86	B	80	4	4	3-4	4
Supra Orange 2GL125		2	Or 39	B	50	3-4	3	3-4	4R
Light Scarlet F2G		2	R 224	B	20	3-4	4	-4	4B
Scarlet 4BS		2	R 23	B	20	3	3	3	2-3
Supra Red BWS		2	R 243	B	60	3-4	3	3	4-5
Light Rose FR		2	R 227	B	80	2-3	3	3	3-4B
Supra Rubine BL		2	R 83.1	B	60	4	3	3	2-3B
Supra Brown GTL		2		B	70	3-4	3	3	4-5
Supra Turquoise Blue FBL		2	B 199	B	35	4	3	2-3	4Y
Blue GL		2	B 293	A	10	4	3	3	4Y
Blue FFRLN		2	B 108:1	B	10	3-4	3	3	4Y
Supra Blue 4BL		2	B 200	B	20	4	3	3	3G
Supra Blue BRL		2	B 201	B	30	4	3	3	3G
Supra Blue BRR		2	B 71	B	25	4	3	3	4

CHROMA DIRECT Dyestuffs	Color Sample	Dyeing depth (% O.W.F.)	C.I.NO.(Direct)	S.D.C Classification	Solubility (80°C/176°F, g/L)		Fastness (fixing treatment)		Change in shade by fixing treatment
					Light	Washing (50°C/122°F)	Light	Washing (50°C/122°F)	
Grey CGL		2	Bk 112	B	40	5	3-4	3	3-4R
Fast Black VSF 600		2	Bk 22	B	25	3-4	3	3	3-4R
Black HRN		2	Bk 173	B	100	4	3-4	3	4-5

This information given in this shade card is based on our current knowledge and work carried out in our laboratory. All data value provided is for references only. The practical dyeing conditions of customers are not what we can control, so doing sufficient experiments is strongly recommended before using our products.

CHROMA DIRECT DYES

CHROMA DIRECT DYES which are direct dyes used to dye all types of cellulosic fibers and its blends by exhaustion and padding methods. These dyes are excellent for exhaustion dyeing of cellulosic fibers.

1. Property: S.D.C. CLASSIFICATION

Each CHROMA DIRECT DYES has been classified by adopted the Society of Dyers and Colorists system. The general dyeing properties are modified as follows:

Class A: Self-levelling dyes

These dyes have good migration property and level easily. They can be applied easily without special precautions.

Class B: Self-controllable dyes

These dyes must be applied in a level manner by a gradual addition of the salt, because of poor migration power or levelling properties.

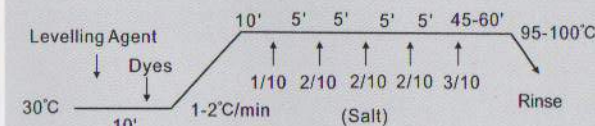
Class C: Temperature-controllable dyes

Owing to these dye's strong affinity and highly sensitive to salt, Its levelling ability is poor than class A dyes. It is necessary to raise the temperature slowly while making small addition of salt.

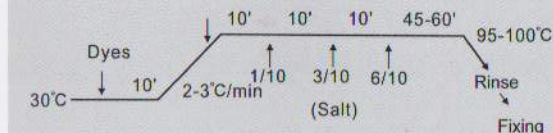
2. Dyeing methods

(A) Exhaust dyeing methods of CHROMA DIRECT DYES

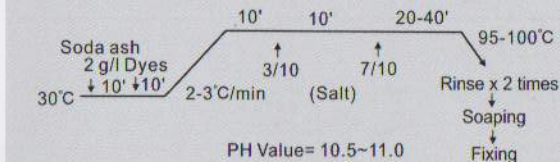
(1) Pale shades



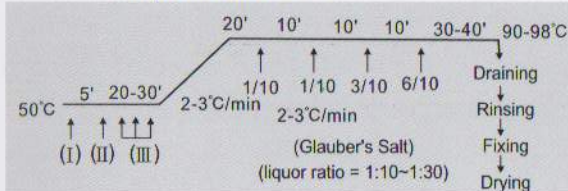
(2) Medium to heavy shades



(3) Special dyeing method of CHROMA DIRECT Black VSF-600.



(4) Special dyeing method of Chroma Direct Supra Turquoise Blue FBL



- I: Penetrating Agent with 2 g/l soda ash
- II: Levelling agent
- III: Dyes: 2-3 portionwise addition

* After-treatment

To improve wet fastness, suitable fixing agent should be applied under the following conditions:

Fixing agent: 0.5-2 g/l

Liquor ratio: 1:20

Temperature: 60°C

Time: 20-30 minutes