

# Dyesstuff for Cotton



**ADITYA**  
**Color Chem**

(A Govt. of India Recognised Export House)

## Company Profile :

Aditya color Chem, an ISO 9001:2008 Certified Company, has been one of the established manufactures of Acid Dyes & Direct Color Dyes for Leather, Fabric & Paper Application in India. Since establishment in 2007, Company is manage by a group of young, dynamic & qualified entrepreneurs who believes the only path of success is throng customer satisfaction. We are having presence in all over USA, EUROPE, UK, China, Latin America and Far East Countries in Leather, Fabric & Paper Industries.

## Manufacturing & Testing Facilities :

- ⇒ We have a plant with 700 MT/annum manufacturing capacity of dyestuff.
- ⇒ We have RO plant for salt-free dyestuff manufacturing.
- ⇒ In House R & D Laboratory with qualified, self motivated technical human power supported by latest instruments and technology.
- ⇒ Lab Facility include U.V. Scanner, Spectra photometer, Automatic fabric Dyeing machine, Leather dyeing machine, Pulp Dyeing machine, Electronic balance, Solubility bath etc.

## Method of Dyeing

**Preparation of Goods for Dyeing:** All the impurities of Grey Yarn must be removed by boiling goods in alkline detergent solution to ensure proper level dyeing and to get optimum brightness of the shade.

### Grey Yarn/Cloth:

The Material is desized with a suitable desizing agent, washed and then boiled for 2-3 hours in suitable surface active agent and caustic soda flakes or solid solution using appropriate material to liquor ratio.

It is then squeezed and rinsed well, preferably first in hot water and then with cold water

### Dyeing Method:

Direct Dyes are applied to cotton at boiling temperature from slightly alkaline or neutral bath with the addition of salt. However the dyestuffs differ in their levelling properties, affinity to cotton at different temperature and exhaustion properties. The liquor to goods ratio affect the levelling of dye, lower ration leads to rapid exhaustion with possibility of unlevel dyeing.

- Set the dye bath at 40°C with required % of Dye & water with 0.1-0.5g/l of levelling agent (for shades with low levelling properties) for 10 min.
- Add 5g/l Glauber's salt & enter goods and run for 10 min.
- Raise the temperature to boil within 30-45 min. Add 25 g/l Glauber's salt.
- Run dyeing at boil for about 45 min. Then reduce temperature to 80°C within 10 min. & run for 15 min.
- Drain the dye bath and give cold wash twice.

Fastness properties of dye can be improved by giving after treatment as per below:

The dyes material is rinsed and treated for half an hour at 80°C in a bath containing

- 0.5-2% Bichromate,
- 0.5-2% Copper Sulphate,
- 1-5% Acetic acid (30%)

Fastness properties were tested according to ISO methods and grey scale were used to assess the change of shade.

**Solubility:** Amount of the dye that dissolves complete in water at heated to 90° C & cooled to 60° C

**Fastness to Light:** Scale 1-8, where 8 is high degree of fastness

**Fastness to Washing:** Scale 1-5, where 5 is high degree of fastness

**Discharge-ability:** P: Poor, F: Fair, M: Moderate, G: Good

\* Methods & properties recommended herein are based on present state of our knowledge and is intended to serve only as a guide to customer in the use of our products, without any obligation on our side.

# COTTON

0.5%

2%

**Product  
Name**

(N.B.)

**Solubility  
@ 60° C (g/Ltr)**

**Light  
Fastness**

**Wash at 50° C  
Fastness**

**Dischargeability**

ADIRECT  
YELLOW 4G

70

5

3

G

ADIRECT  
YELLOW 10G

70

4

-

-

ADIRECT  
YELLOW PG

70

4

4

-

ADIRECT  
YELLOW 3GX

60

3

3

P

ADIRECT  
YELLOW DRL

60

6-7

3

G

ADIRECT  
YELLOW RS

70

6-7

3

G

ADIRECT  
YELLOW LR

40

4

2

G

ADIRECT  
YELLOW CG

20

4

2

M

ADIRECT  
YELLOW RT

60

2

3-4

P

ADIRECT  
ORANGE TG

70

6

3

M

ADIRECT  
ORANGE TGL

70

6

3

G

























ADIRECT  
ORNAGE SE

30

3

3

F

COTTON		Product Name (N.B.)	Solubility @ 60° C (g/Ltr)	Light Fastness	Wash at 50° C Fastness	Dischargeability
0.5%	2%					
		AIRECT ORANGE ARL	60	5-6	3-4	G
		AIRECT SCARLET B	40	4	2-3	M
		ADIRECT SCARLET 6BS	60	4	3-4	M
		ADIRECT RED 7BL	70	4	3-4	M
		ADIRECT RED 3B	60	4-5	3-4	G
		ADIRECT RED 5BL	40	4	2	M
		ADIRECT PINK B	30	2	3	F
		ADIRECT ROSE FR	50	4	4-5	F
		ADIRECT BORDEAUX R	40	2-3	2-3	F
		ADIRECT SKY BLUE	50	2-3	2-3	G
		ADIRECT TURQUIOSE GL	40	6	3	M
		ADIRECT TURQUIOSE FBL	100	4-5	4	F

COTTON		Product Name (N.B.)	Solubility @ 60° C (g/Ltr)	Light Fastness	Wash at 50° C Fastness	Dischargeability
0.5%	2%					
		ADIRECT BLUE 2R	30	4-5	4	-
		ADIRECT BLUE 7G	50	4	-	-
		ADIRECT FAST BLUE GLL	30	5	3	G
		ADIRECT FAST BLUE 5RL	20	6	3	M
		ADIRECT COPPER BLUE 2B	40	2-3	3	G
		ADIRECT SUPRA BLUE 4B	40	6	3	G
		ADIRECT SUPRA BLUE RL	40	6	3	G
		ADIRECT VIOLET VB	30	3	3	G
		ADIRECT VIOLET VR	30	2-3	2	G
		ADIRECT VIOLET 2RL	30	3-4	3	G
		ADIRECT FAST VIOLET 5B	25	6-7	3	F
		ADIRECT PURPLE 2R	40	3-4	2	G

COTTON		Product Name (N.B.)	Solubility @ 60° C (g/Ltr)	Light Fastness	Wash at 50° C Fastness	Dischargeability
0.5%	2%					
		ADIRECT BROWN GTL	60	4	4-5	G
		ADIRECT BROWN SBN	20	3	3	G
		ADIRECT PARROT GREEN	50	4-5	2-3	F
		ADIRECT GREEN FB	50	4	3	F
		ADIRECT FAST BLACK G	90	3-4	2	G
		ADIRECT BLACK FB	60	5	4	G
		ADIRECT BLACK SG	40	5	4	G
		ADIRECT BLACK OB	30	2-3	3-4	G
		ADIRECT BLACK VSF	20	4-5	3	G

COTTON		Product Name (N.B.)	Solubility @ 60° C (g/Ltr)	Light Fastness	Wash at 50° C Fastness	Dischargeability
0.5%	2%					
		ADINIL RED CO	40	2-3	2-3	G
		ADINIL RED WB	35	2	3	G
		ADINIL BROWN MN	40	3	2-3	M
		ADINIL BROWN GTL	60	4-5	2	F
		ADINIL GREEN GS	40	2	3	G
		ADINIL GREEN PB	40	3	3	G
		ADINIL BLUE BW	40	2	3	G
		ADINIL BLACK 2BN	40	2-3	3	G
		ADINIL BLACK BRN	40	2-3	3	M



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**Color Chem**

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