



Appex Dye-Stuff Industries

Manufacturer & Exporter of Synthetic Organic Dyes

(A Govt. of India Recognised Export House)



DIRECT
DYES





Appex Dye-Stuff Industries

About Us

APPEX DYESTUFF INDUSTRIES, a manufacturing unit started by **Mr. Jaigovind Agrawal** in the year 1980, Producing S.O. Dyes (Reactive, Direct & Acid Dyes). Now Appex is a flagship company of its group of industries.

Mr. Jaigovind B. Agrawal who is whole time Director of Appex group, a degree holder & Chemistry (B.Sc.). He started manufacturing venture with very small volume of investment in 1980. He got reward of his hard work in result company progressed to leaps and bounds.

Appex Dye-Stuff Industries is a Gov. recognized export house & registered ISO 9001:2008 of Appex Group of Industries. It is **member of Gujarat Dyestuff Manufacturer Association (GDMA)**, Gujarat Chamber of Commerce, Chemexcil and Appex Group of Industries is Eco-Friendly accordingly it is member of The Green Environment Co-operative Society Ltd. It has 30 years of worldwide experience in the field of manufacturing & exporting of Reactive, Direct & Acid dyes. Now Appex Dyestuff Industries become a leading manufacturer of Ahmedabad. He is also responsible for company's present status as Appex could establish a respectable name in Domestic as well as International markets. **Mr. Brijesh J. Agrawal** elder son of **Mr. Jaigovind**, a commerce graduate. After completion of his Business Management course and he has taken full responsibility of company's Export-Import Business including quality control and R & D.

Appex Group has 4 manufacturing units in total where we are manufacturing our products under the name of **Appex Dyestuff Industries, J.B. Fine-Chem, Alok Industries & Bhavin Industries**. We are constantly looking forward to export our products in various other countries and at the same time expanding by venturing into new products. We have a well equipped laboratory and sound professionals who maintain the quality of our product & at the same time look out for new products. Appex always committed to serve its customers with quality consciousness and at attractive price. Appex diversified manufacturing activates prompted in producing full series **Reactive Dyes** (Application in Textile Printing & Dyeing Cotton, and Ink), **Direct Dyes** (Application in Textile Printing & Dyeing Cotton, Paper, and Ink) & **Acid Dyes** (Application in Nylon, Silk, Wool and Leather). Company exports almost 90% of its total and products are well approved worldwide.

APPEX DYES ON COTTON

1. INTRODUCTION

AppeX Dye stuff Industries 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 becks, package dyeing machine winches, jigs and padding machines.

2. PREPARATION OF GOODS

It is necessary to remove all impurities from grey yarn or fabric to ensure level dyeing, good penetration of dyestuffs 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.

3. DYEING METHODS

Two dyeing methods are recommended.

Dyeing Method No. 1 :

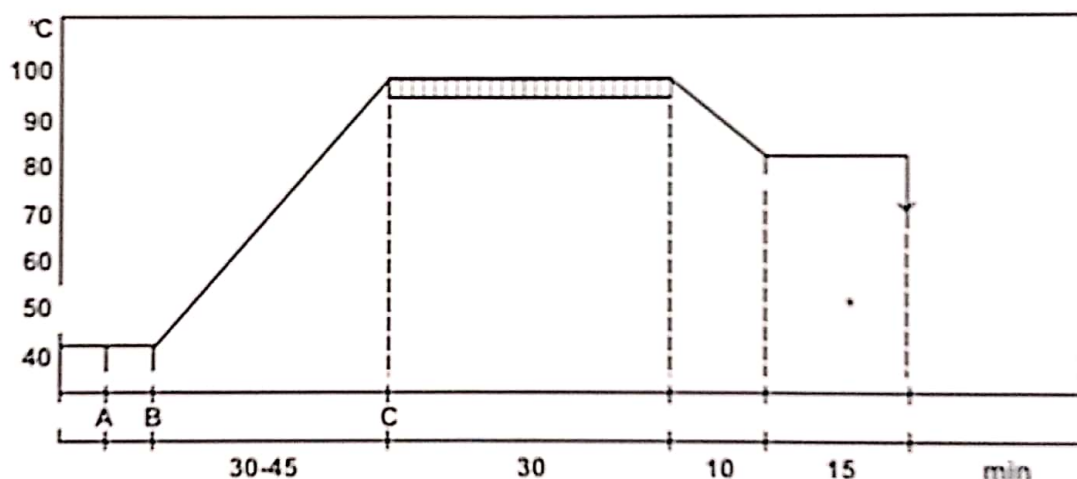
The dyebath is prepared using

X%	Dyestuffs
0.5-2.0%	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 900 - 950 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 under.



A:	X %	APPEX dye
B:	1-8 g/l	Anhydrous Glauber's Salt
C:	4-32 g/l	Anhydrous Glauber's Salt

- Set the dyebath 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 mins. & treat as usual.

4. ILLUSTRATION

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

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



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DIRECT DYES (N.B.)

0.5%	1.0%	2.0%	PRODUCT NAME
			DIRECT YELLOW CFG (DIRECT YELLOW 8)
			DIRECT YELLOW 5GLL (DIRECT YELLOW 44)
			DIRECT YELLOW PG (DIRECT YELLOW 142)
			DIRECT YELLOW G (DIRECT YELLOW 107)
			DIRECT YELLOW RLL (DIRECT YELLOW 50)
			DIRECT YELLOW 3GX (DIRECT YELLOW 6)
			DIRECT YELLOW 2RLX (DIRECT YELLOW 86)
			DIRECT SUN YELLOW RCH (DIRECT YELLOW 99)
			DIRECT FAST YELLOW RR (DIRECT YELLOW 28)
			DIRECT YELLOW ABRL (DIRECT YELLOW 106)
			DIRECT YELLOW 3RL (DIRECT YELLOW 34)
			DIRECT PAPER YELLOW T (DIRECT YELLOW 11)



Appex Dye-Stuff Industries

DIRECT DYES (N.B.)

0.5%	1.0%	2.0%	PRODUCT NAME
			DIRECT ORANGE SE (DIRECT ORANGE 26)
			DIRECT ORANGE WSS (DIRECT ORANGE 102)
			DIRECT VISCOSE ORANGE A (DIRECT ORANGE 108)
			DIRECT ORANGE GLL 4BS (DIRECT ORANGE 39)
			DIRECT SCARLET 4BNX (DIRECT RED 239)
			DIRECT FAST SCARLET 4BS (DIRECT RED 23)
			DIRECT FAST ROSE FR (DIRECT RED 227)
			DIRECT PINK 2B (DIRECT RED 75)
			DIRECT SOLOPHENYL RED 6BL (DIRECT RED 79)
			DIRECT FAST RED BFX (DIRECT RED 254)
			DIRECT RED 5BL (DIRECT RED 81)
			DIRECT SOLOPHENYL RED 3BL (DIRECT RED 80)



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DIRECT DYES (N.B.)

0.5%	1.0%	2.0%	PRODUCT NAME
			DIRECT RED 12B (DIRECT RED 31)
			DIRECT RED GR2 (DIRECT RED 111)
			DIRECT RUBINE 2RL (DIRECT RED 83)
			DIRECT BORDEAUX 6B (DIRECT RED 16)
			DIRECT BRILLIANT FAST VIOLET 2RL (DIRECT VIOLET 7)
			DIRECT VIOLET 4BLL (DIRECT VIOLET 66)
			DIRECT BRILLIANT FAST HELIO B (DIRECT VIOLET 51)
			DIRECT BRILLIANT VIOLET NB (DIRECT VIOLET 9)
			DIRECT PAPER VIOLET BL (DIRECT VIOLET 35)
			DIRECT TURQ. BLUE GL (DIRECT BLUE 86)
			DIRECT TURQ. BLUE FBL (DIRECT BLUE 199)
			DIRECT BLUE G (DIRECT BLUE 8)



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DIRECT DYES (N.B.)

0.5%	1.0%	2.0%	PRODUCT NAME
			DIRECT BLUE 2RLL (DIRECT BLUE 80)
			DIRECT BLUE NB (DIRECT BLUE 54)
			DIRECT SUPRA BLUE BRL (DIRECT BLUE 201)
			DIRECT COPPER BLUE 2R (DIRECT BLUE 151)
			DIRECT LIGHT FAST BLUE GL (DIRECT BLUE 71)
			DIRECT SKY BLUE FF (DIRECT BLUE 15)
			DIRECT LIGHT BLUE 5GLL (DIRECT BLUE 218)
			DIRECT SKY BLUE FB (DIRECT BLUE 1)
			DIRECT GREEN 2BN (DIRECT GREEN 96)
			DIRECT GREEN NFR (DIRECT GREEN 102)
			DIRECT GREEN NBX (DIRECT GREEN 114)
			DIRECT BROWN GTL (DIRECT BROWN 210)



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DIRECT DYES (N.B.)

0.5%	1.0%	2.0%	PRODUCT NAME
			DIRECT BROWN DL4R (DIRECT BROWN 78)
			DIRECT BROWN BRLL (DIRECT BROWN 95)
			DIRECT GREY L (DIRECT BLACK 51)
			DIRECT BLACK 2G (DIRECT BLACK 201)
			DIRECT FAST BLACK G (DIRECT BLACK 19)
			DIRECT BLACK BF (DIRECT BLACK 155)
			DIRECT BLACK VSF (DIRECT BLACK 22) 600%
			DIRECT BLACK VSF (DIRECT BLACK 22) 1600%
			DIRECT BLACK SGR (DIRECT BLACK 168) REDDER
			DIRECT BLACK SBG (DIRECT BLACK 168) GREENER
			DIRECT BLACK ESE (DIRECT BLACK 179)
			DIRECT BLACK OBN (DIRECT BLACK 80)



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DIRECT DYES (N.B.)

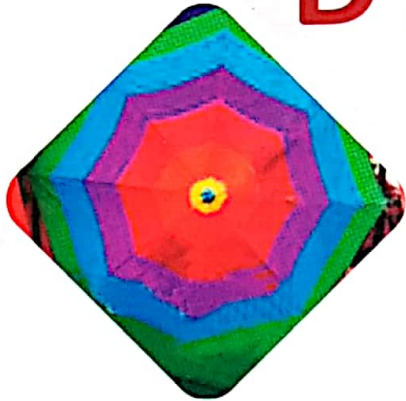
0.5%	1.0%	2.0%	PRODUCT NAME
			DIRECT ORANGE GR (DIRECT ORANGE 1)
			DIRECT RED 4B (DIRECT RED 2)
			DIRECT CONGO RED (DIRECT RED 28)
			DIRECT RED F (DIRECT RED 1)
			DIRECT BORDEAUX BW (DIRECT RED 13)
			DIRECT BLUE 2B (DIRECT BLUE 6)
			DIRECT GREEN PLS (DIRECT GREEN 1)
			DIRECT GREEN B (DIRECT GREEN 6)
			DIRECT BROWN MR (DIRECT BROWN 2)
			DIRECT DIAZO BLACK BT (DIRECT BLACK 2)
			DIRECT BLACK EXTRA CONC. (DIRECT BLACK 38)



we make color



**DIRECT
DYES**



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**Manufacturer & Exporter of Synthetic Organic Dyes
(Acid, Direct & Reactive Dyes)**

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colors makes world beautiful