# Dyestuff for Wool

BSCIC
JAS-ANZ
ISO 9001 REGISTERED
BN7329 / 6476 : 0513

ADITYA COLOR CHEM

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Color Chem

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**Unit - 2 :** Plot No. 1216, Phase III, G.I.D.C Vatva, Ahmedabad - 382 445. Gujarat, INDIA.
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## Company Profile :

Aditya Color Chem, an ISO 9001:2008 Certified Company, has been one of the established manufacturers of Acid Dyes & Direct Color Dyes for Leather, Fabric & Paper application in India. Since establishment in 2007, company is managed by a group of young, dynamic & qualified entrepreneurs who believes the only path of success is through 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 dye stuff.
- We have RO plant for salt-free dyestuff manufacturing.
- In house R & D Laboratory with qualified, self motivated technical human power supported by latesinstrumentsandtechnology.
- Lab Facilities include U.V. Scanner, Spectra photometer, Automatic fabric Dyeing machine, Leather dyeing machine, Pulp Dyeing machine, Electronic balance, Solubility bath etc.

## Our Mission :

To be recognized as the topmost quality Indian supplier of Acid & Direct Color Dyes for leather, fabric & paper industries, internationally in terms of customer service and satisfaction with best product quality & competitive pricing. To attain the status of most preferred long term business partner in the eyes of our Indian and International customers.

## Commitment to Nature:

As Colors are the smile of Nature, we are committed for that smile and committed to protect the treasure of GOD.We have in house ETP plant with capacity of 600000 Liter/Month for effluent treatment and also further treat our industrial effluent at common effluent treatment plant, The GREEN ENVIRONMENT CO-OP. SOCIETY LTD.

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## Methods for Dyeing On Wool

1. **Highly Acidic – Sulphuric Acid**
   10%-20% Glauber's Salt
   2%-4% Sulphuric Acid- pH-2-3
   X % dyestuff

   Enter Material at 50°-60° C for 10-15 mins. Add sulphuric acid and pre-dissolved dyestuff and bring bathtemperature to boil in 30-40 mins. Dye the material at boiling temperature for 90 mins. Rinse & dry.

2. **Strongly Acidic – Acetic Acid**
   10%-20% Glauber's Salt
   2%-4% Acetic Acid pH-3-4
   X % dyestuff

   Enter Material at 50°-60° C for 10-15 mins. Add Acetic acid and pre-dissolved dyestuff and bring bath temperature to boil in 30-40 mins. Dye the material at boiling temperature for 30-45 mins. Rinse & dry.

3. **Weakly Acidic – Acetic Acid**
   5%-10% Glauber's Salt
   Acetic Acid for 4 - 4.5 pH
   X % dyestuff

   Enter Material at 50°-60° C for 10-15 mins. Add Acetic acid and pre-dissolved dyestuff and bring bath temperature to boil in 30-40 mins. Dye the material at boiling temperature for 30-45 mins. Rinse & dry.

4. **Neutral**
   5%-10% Glauber's Salt
   2%-5% Ammonium Sulphate for pH 5.5 - 6
   X % dyestuff

   Enter Material at 40°C for 10-15 mins. Add ammonium sulphate (to bring pH 5.5-6) and pre-dissolved dyestuff and bring bath temperature to boil in 30-40 mins. Dye the material at boiling temperature for 45-60 mins. Rinse & dry.

# WOOL

| 1.0 % | 3.0 % | Milling Dyes | Dyeing Method | Solubility | Fastness properties | | | | | Dischargeability |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Light | Wash at 50° | Perspiration | Staining on Wool | | |
| | | | | | | | | Mill. Acid | Mill. Alkline | |
|  |  | Acid Yellow 2G | 3 | 80 | 6 | 4 | 4-5 | 1 | 1 | G |
|  |  | Tatrazine | 3 | 90 | 4 | 3-4 | 2 | 2 | 2-3 | G |
|  |  | Acid Yellow NFG | 3 | 60 | 5-6 | 3 | — | — | 2-3 | G |
|  |  | Acid Yellow E2GL | 3 | 60 | 6-7 | 4-5 | 1 | 1 | 1 | G |
|  |  | Acid Yellow 3GL | 3 | 60 | 6-7 | 2 | 2 | — | 1 | G |
|  |  | Acid Yellow 5GN | 3,4 | 90 | 5-6 | 5 | 5 | 5 | 5-6 | G |
|  |  | Fast Yellow MR | 3,4 | 50 | 5-6 | 5 | 5 | 3-4 | 4-5 | M |
|  |  | Acid Yellow 4R | 3 | 30 | 6 | 4 | 3 | — | — | — |
|  |  | Fast Yellow 4GF | 3 | 80 | 6 | 4 | — | 4 | 4-5 | G |
|  |  | Acid Yellow 5GL | 1,2 | 60 | 6 | 4 | 3-4 | 4 | 4-5 | G |
|  |  | Acid Yellow 4GL | 2 | 60 | 6-7 | 3-4 | 3-4 | 4-5 | — | G |
|  |  | Golden Yellow G | 3 | 80 | 3 | 2 | — | — | 1-2 | G |
|  |  | Acid Yellow E-4RL | 3 | 40 | 6-7 | 4-5 | 5 | — | — | M |
|  |  | Acid Orange E-3R | 2,3 | 80 | 5-6 | 2 | 2 | 2 | 1 | P |
|  |  | Acid Orange G | 2,3 | 80 | 4-5 | 3 | 2 | 3 | 3 | G |

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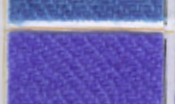
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Light | Wash at 50° | Perspiration | Staining on Wool | | |
| | | | | | | | | Mill. Acid | Mill. Alkline | |
|  |  | Acid Red BL | 3 | 80 | 5 | 3-4 | 3-4 | 3-4 | 1 | G |
|  |  | Acid Red F2R | 3-4 | 30 | 5 | 5 | 4-5 | — | 3-4 | G |
|  |  | Acid Red 3BN | 3 | 80 | 5 | 5 | 5 | 4-5 | 5 | G |
|  |  | Acid Red 2BN | 3-4 | 80 | 5 | 2 | 4 | 3-4 | 3-4 | G |
|  |  | Acid Rhodamine B | 2 | 80 | 3 | 3-4 | 4 | 3 | 1 | P |
|  |  | Acid Maroon V | 3 | 70 | 4-5 | 5 | 5 | 4-5 | 3 | G |
|  |  | Acid Violet 10B | 2 | 70 | 4-5 | 5 | 4-5 | 5 | 4-5 | G |
|  |  | Acid Violet 4BH | 1,3 | 60 | 1 | 3-4 | 4-5 | 3 | 2 | P |
|  |  | Patent Blue VS | 2,3 | 80 | 2 | 2 | 3 | 1 | 1-2 | M |
|  |  | Patent Blue AS | 1,3 | 70 | 2 | 4 | 4-5 | 4 | 4 | M |
|  |  | Brilient Blue FCF | 1,2 | 80 | 3 | 2-3 | 3 | 3 | 3 | M |
|  |  | Brilient Blue FF | 1,3 | 70 | 1 | 4 | 4-5 | 3-4 | 3-4 | G |
|  |  | Navy Blue S5R | 3 | 70 | 5 | 4-5 | 4 | 4-5 | 4-5 | M |
|  |  | Acid Green B | 3 | 80 | 7 | 3 | 3-4 | 1 | 3 | M |
|  |  | Acid Green V | 3 | 70 | 3 | 4 | 4-5 | 4 | 1 | M |

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|---|---|---|---|---|---|---|---|---|---|
| | | | | Light | Wash at 50° | Perspiration | Staining on Wool: Mill. Acid | Staining on Wool: Mill. Alkline | |
|  | Acid Orange A-R | 1,2 | 70 | 5-6 | 4 | — | 3-4 | — | G |
| | Acid Orange CR | 1,2 | 60 | 5 | 5 | 4-5 | — | — | — |
| | Brillient Orange G | 3 | 80 | 3 | 4 | 4 | 4 | 3 | G |
| | Acid Orange II | 2,3 | 70 | 4 | 1 | 2-3 | 2-3 | 1 | G |
| | Acid Orange GRL | 3 | 80 | 6 | 4 | 4-5 | 4-5 | 4 | G |
| | Acid Red G | 2,3 | 50 | 4 | 3-4 | 4-5 | 3 | 3 | G |
| | Acid Scarlet 3R | 3 | 80 | 4 | 2 | 2 | 2 | 2-3 | G |
| | Acid Red B | 3 | 80 | 3 | 2 | 3 | 3 | 1 | G |
| | Fast Red A | 3 | 40 | 2-3 | 1 | 3 | 2 | 1 | G |
| | Acid Red GRS | 3,4 | 60 | 4-5 | 4 | 4 | 3 | 3 | G |
| | Acid Red RS | 3 | 80 | 3 | 4 | 4-5 | 4 | 4-5 | G |
| | Acid Red F-RL | 3 | 20 | 5 | 5 | 4-5 | — | — | — |
| | Acid Red NRS | 3 | 20 | 2-3 | 2 | 3 | 3 | 1 | G |
| | Acid Red 3B | 3 | 70 | 5-6 | 4-5 | 4 | — | 2-3 | P |
| | Acid Red 2G | 3 | 80 | 5 | 3 | 4-5 | 1 | 2 | M |

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| 1.0 % | 3.0 % | Milling Dyes | Dyeing Method | Solubility | Fastness properties | | | | | Dischargeability |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Light | Wash at 50° | Perspiration | Staining on Wool: Mill. Acid | Staining on Wool: Mill. Alkline | |
|  |  | Dark Green BN | 2,3 | 70 | 6 | 4 | 4 | 2 | 2 | G |
|  |  | Dark Green A | 2,3 | 70 | 3-4 | 3 | 4-5 | 4 | 1 | M |
|  |  | Acid Brown NR | 3 | 70 | 5 | 4 | 3-4 | 2-3 | 3 | F |
|  |  | Acid Black 10BX | 3,4 | 70 | 5 | 3-4 | 2 | 2 | 2 | M |
|  |  | Acid Black WR | 3 | 50 | 5 | 3 | 4 | — | 3 | — |
|  |  | Acid Black BR | 3 | 60 | 6 | 4 | 4-5 | 4 | 4 | P |
|  |  | Acid Black VL | 3 | 50 | 4 | 3-4 | 4-5 | 4 | 4 | M |
|  |  | Acid Black NT | 3 | 70 | 6 | 3 | 3 | 2 | 1 | G |
|  |  | Acid Black NB | 3 | 70 | 6 | 4 | 4-5 | 3 | 3 | M |
|  |  | Acid Black AT | 3 | 70 | 4 | 3 | 2 | 2 | 2 | F |

## Metal Complex Dyes

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
|  |  | Acid Yellow S2G 1:2 | 2,3 | 60 | 7-8 | 4-5 | 5 | — | 4-5 | — |
|  |  | Acid Yellow M5RL 1:2 | 3 | 60 | 6-7 | 4-5 | 4 | 4 | 4 | — |
|  |  | Acid Yellow GR 1:1 | 1,2 | 40 | 4-5 | 4-5 | 4-5 | 4 | 4 | P |
|  |  | Acid Yellow M-R 1:2 | 2-3 | 60 | 6 | 5 | 5 | 3 | 3-4 | G |

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| 1.0 % | 3.0 % | Metal Complex Dyes | Dyeing Method | Solubility | Fastness properties | | | | | Dischargeability |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Light | Wash at 50° | Perspiration | Staining on Wool | | |
| | | | | | | | | Mill. Acid | Mill. Alkline | |
|  |  | Acid Pink M 1:1 | 1,2 | 70 | 5-6 | 4 | 4 | 4 | 4-5 | P |
|  |  | Acid Red BRS 1:2 | 4 | 30 | 6-7 | 3 | 5 | — | 3-4 | M |
|  |  | Acid Bordeaux BR 1:2 | 4 | 30 | 4 | 5 | 4-5 | 4-5 | 4-5 | P |
|  |  | Acid Blue 2G 1:1 | 1,2 | 60 | 5-6 | 4 | 4 | 4 | 4 | G |
|  |  | Acid Blue MTR 1:2 | 4 | 70 | 6 | 4-5 | 5 | 4 | 4-5 | M |
|  |  | Acid Olive Green G 1:2 | 4 | 60 | 6 | 4-5 | 5 | 5 | 5 | P |
|  |  | Acid Green MGBL 1:2 | 3 | 70 | 6 | 4-5 | 4-5 | — | 4-5 | F |
|  |  | Acid Brown M2RL 1:2 | 3 | 60 | 6 | 4-5 | 4-5 | — | 4-5 | — |
|  |  | Acid Brown SGR 1:2 | 4 | 40 | 6-7 | 5 | 4-5 | 5 | 4-5 | P |
|  |  | Acid Brown MBR 1:2 | 4 | 70 | 6-7 | 4-5 | 4 | 4 | 4 | G |
|  |  | Acid Grey BL 1:2 | 4 | 70 | 6-7 | 4-5 | 5 | — | 4-5 | G |
|  |  | Acid Black N-BGL 1:2 | 4 | 60 | 7-8 | 5 | 5 | 5 | 5 | P |
|  |  | Acid Black MRL 1:2 | 4 | 70 | 7 | 4 | 4 | 4 | 4-5 | M |
|  |  | Acid Black BL 1:2 | 4 | 30 | 7 | 4-5 | 4-5 | 3-4 | 4 | M |
| | | | | | | | | | | |

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| 1.0 % | 3.0 % | Metal Complex Dyes | Dyeing Method | Solubility | Fastness properties | | | | | Dischargeability |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Light | Wash at 50° | Perspiration | Staining on Wool | | |
| | | | | | | | | Mill. Acid | Mill. Alkline | |
|  |  | Acid Yellow M3RL 1:2 | 4 | 60 | 6 | 5 | 4 | 3 | 4 | M |
|  |  | Acid Yellow SG 1:2 | 3,4 | 60 | 5-6 | 3 | 4-5 | — | — | — |
|  |  | Acid Yellow 3R 1:2 | 4 | 60 | 7 | 4-5 | 5 | 4-5 | 4-5 | M |
|  |  | Acid Orange 3-RL 1:2 | 4 | 60 | 7 | 4-5 | 4-5 | — | 5 | — |
|  |  | Acid Orange G 1:1 | 1,2 | 60 | 6-7 | 4 | 4-5 | 4 | 4-5 | G |
|  |  | Acid Orange RL 1:2 | 4 | 70 | 7 | 4-5 | 4-5 | — | 4-5 | G |
|  |  | Acid Orange MRL 1:2 | 4 | 50 | 6 | 4-5 | 4 | 2 | 3 | F |
|  |  | Acid Orange 2RL 1:2 | 4 | 50 | 6-7 | 4 | 5 | — | 3 | F |
|  |  | Acid Orange 2SRL 1:2 | 4 | 50 | 6-7 | 4-5 | 5 | — | 5 | — |
|  |  | Acid Red GRE 1:1 | 1,2 | 60 | 7 | 3-4 | 4 | 4 | 3-4 | M |
|  |  | Acid Scarlet ML 1:2 | 2 | 80 | 5 | 4-5 | 4-5 | 3 | 3 | F |
|  |  | Acid Red MBR 1:2 | 4 | 50 | 5 | 4-5 | 4-5 | 3 | 4-5 | — |
|  |  | Acid Red H 1:2 | 4 | 60 | 6 | 5 | 4 | — | 2-3 | M |
|  |  | Acid Red S-G 1:2 | 4 | 80 | 5-6 | 6 | 4-5 | 2 | — | M |
|  |  | Acid Red S-RL 1:2 | 4 | 80 | 5 | 5 | 4 | — | — | — |