

NAPHTHOL AND FAST BASES



**Vipul Dyes and Chemicals
Pvt. Ltd.**

VIPULTHOL

Combinations on

COTTON YARN

"Vipulthols" can be used to produce a wide range of shades covering deep yellows, oranges, scarlets, reds, maroons, browns navy and black. The shades are fast to light and washing. Some of the shades can even stand bleaching and mercerising treatments.

DYEING

DISSOLVING OF VIPULTHOL:

a) **Hot dissolving Process:** The Vipulthol is pasted with T.R.O. key Red Oil, little hot water and dispersed with boiling water. Caustic soda is then added. If the solution is not clear it is boiled further till clear. In case of Vipulthol AS-SW, AS-SG the paste is made with T.R.O. and caustic soda and warmed. The solution is made by adding boiling water. Formaldehyde may be added to protect the goods from exposure to air. This addition should be omitted in case the goods are dried prior to development, and also with use of Vipulthol AS-G.

Quantities of Chemicals for Dissolving

1 Kg. of Vipulthol

| Vipulthol | TRO Kgs. | Caustic Soda 70°Tw Litres | Boiling Water Litres | Formalin 40% Litres |
|-----------|-------------|---------------------------------|----------------------------|---------------------------|
| AS, AS-D | 0.5 | 1.5 | 15 | 1.0 |
| AS-BO | 0.5 | 0.5 | 20 | 1.0 |
| AS-BS | 0.5 | 1.5 | 15 | 1.0 |
| AS-E | 0.5 | 1.5 | 20 | 0.65 |
| AS-G | 0.5 | 2.5 | 15 | — |
| AS-OL | 0.5 | 1.5 | 15 | 0.5 |
| AS-SW | 0.5 | 3.2 | 40 | 0.5 |
| AS-TR | 0.5 | 2.0 | 40 | 0.5 |

b) **Cold dissolving Process:** In this process methylated spirit is used for pasting Vipulthol and dissolution is effected in presence of caustic soda at ambient temperature. This method is by far less used since it is costly process.

IMPREGNATION OF "VIPULTHOLS"

The Vipulthols can be impregnated by various methods, usually employed for other dyes. It should be ensured that minimum amount of caustic soda is always present in the dye bath i.e. 4-8 cc/litre of 70°Tw from pale to deep shades except.

In case of Vipulthol AS-G 2.5-6.5 cc/litre. Addition of Common salt or Calcined glauber's salt is recommended to improve yield as well as to improve rubbing fastness of the dyeings. The following quantities are recommended:

| | | |
|------------|-------|----------|
| Vipulthol | AS-G | 15 gms/l |
| Vipulthol | AS-SW | 10 gms/l |
| All others | | 20 gms/l |

It is essential that by whichever method the material is impregnated they should be thoroughly squeezed before entering into the developing bath.

DEVELOPING

The material which is impregnated with Vipulthol is entered into the developing bath containing the diazotised base. The formation of colour takes place in situ. This operation can also be carried with the usual equipments.

PREPARATION OF DEVELOPING BATH

Quantities of chemicals for Diazotiating 1 Kg. of Fast Base:

| Fast Base | Hot Water Lit. | HCl 32°Tw Lit. | Cold Water Lit. | Sodium Nitrite Kgs. | Sodium Acetate Kgs. | Acetic acid 50% Lit. |
|-------------|----------------|----------------|-----------------|---------------------|---------------------|----------------------|
| Yellow GC | 5 | 1.2 | 15 | 0.5 | 2.0 | 0.76 |
| Orange GC | 5 | 1.2 | 15 | 0.5 | 1.0 | 0.75 |
| Scarlet G | 10 | 2.0 | 15 | 0.5 | 1.0 | 0.74 |
| Scarlet GG | 5.5 | 3.6 | — | 0.6 | 3.8 | — |
| Scarlet GGS | — | 2.0 | 7 | 0.4 | 2.5 | — |
| Scarlet R | 15 | 2.0 | 10 | 0.8 | 1.5 | 1.0 |
| Scarlet RC | — | 1.0 | 20 | 0.4 | 0.8 | 0.5 |
| Red TR | — | 1.0 | 20 | 0.4 | 0.8 | 0.2 |
| Red R | — | 2.0 | 27 | 1.0 | 1.5 | 0.5 |
| Red RC | — | 1.0 | 14 | 0.5 | 0.8 | 0.3 |
| Red KB | 10 | 1.0 | 13 | 0.4 | 0.8 | 0.6 |
| Garnet GBC | 2 | 1.2 | 15 | 0.3 | 1.3 | — |

Chemicals required for Diazotising 1 Kg. of Fast Base:—

(Soluble in Water)

| Fast Base | Hot Water Lit. | Sodium Nitrite Kgs. | Cold Water Lit. | HCl 32°Tw Lit. | Sodium Acetate Kgs. | Acetic acid 50% Lit. |
|-------------|----------------|---------------------|-----------------|----------------|---------------------|----------------------|
| Orange GR | — | 0.55 | 30 | 2.2 | 1.2 | 0.7 |
| Red B | 1.5 | 0.5 | 20 | 1.8 | 0.9 | 0.8 |
| Red BR | 1.5 | 0.5 | 20 | 1.8 | 0.9 | 0.8 |
| Red 3 GL | 4.0 | 0.45 | 30 | 1.8 | 1.0 | 0.6 |
| Bordeaux GP | 2.0 | 0.5 | 20 | 0.9 | 0.9 | 0.8 |

Fast Red GL Base

- 1 Kg. of Base pasted with hot water and
0.5 Kg. of Sodium Nitrite. When the Nitrite is dissolved add
20 Litres of Cold water at 15°C containing
2 Litres of HCl 32°Tw. Keep for 30 minutes and dilute to
40 Litres with cold water and neutralize with a mixture
containing predissolved
0.4 Kg. Soda ash and
1.7 Kgs. of Aluminium sulfate and finally adjust to
neutral pH.

Fast Blue B Base

- 1 Kg. of Fast Blue dissolved with
20 Litres of Boiling water containing
2.5 Litres of HCl 32°Tw and then add
5 Litres of Cold water and cool to 10°C
0.65 Kgs. of Sodium Nitrite added with vigorous stirring.
Keep for 20 minutes and then neutralize with
0.25 Kgs. of Soda Bicarb predissolved in water and finally
add as alkali binding agent
0.5 Kgs. of Soda Bicarb dissolved in cold water.

Fast Blue BB Base

- 1 Kg. of Fast Base pasted with
20 Litres of Cold water containing
1 Litre of HCl 32°Tw. Cool and then add
0.25 Kg. of Sodium Nitrite dissolved in cold water with vig-
orous stirring. After 20 minutes neutralize with
0.5 Kg. of Sodium Acetate dissolved in water.
Add to the dyebath 10 gms/litre of Sodium acetate.

Fast Violet B Base

- 1 Kg. of Fast Base pasted with
2.5 Litres of Hot water and
0.3 Kg. of Sodium Nitrite and then add
1.15 Litres of HCl 32°Tw. in
15 Litres of Cold water with vigourous stirring. Stand for 20
minutes and then neutralize with
0.55 Kgs. of Sodium Acetate in cold water.
Add to the dyebath 10 gms/litre of Sodium acetate.

ADDITIONS TO THE DEVELOPING BATH

Common Salt: 15-25 gms/litre is recommended in order to prevent premature loosening of Naphthol from fibre. The addition should be omitted with use of Fast Garnet GBC Base. Combinations with Diamond brand Naphthol AS-G.

2 ml/litre acetic acid is added in order to prevent dull and uneven shades.

Fast Salts:

Fast salts are always stored in a cool dry place because they are sensitive to heat and moisture. If they are exposed to light, decomposition takes place.

Fast salts are freely soluble in water. It is pasted first with little water & further quantity of water is added maintaining the temperature at 30°C. In the case of Fast Red B salt the powder is sprinkled slowly on water with stirring. It is kept for 5-10 minutes and filtered through a fine mulmul cloth.

AFTER TREATMENT OF DYEINGS

The goods after development are rinsed thoroughly in water and soaped with 2 gms/l soap and 2 gms/l soda ash at boil for 30 minutes. The goods are rinsed thoroughly in hot and cold water.

FASTNESS FIGURES

The highest fastness is represented by figure 5, except in case of light where it is represented by figure 8.

The illustrations of "VIPULTHOL" Combinations are on unmercerised 2 × 40's Cotton yarn dyed at a liquor to goods ratio of 20:1.













(WITHOUT GUARANTEE)

| Fast Bases | C.I. Azoic Developing Components | C.I. No. |
|-------------------|----------------------------------|----------|
| Fast Yellow GC | Az. D.C. 44 | 37000 |
| Fast Orange GC | Az. D.C. 2 | 37005 |
| Fast Scarlet GGS | Az. D.C. 3 | 37010 |
| Fast Scarlet G | Az. D.C. 12 | 37105 |
| Fast Scarlet R | Az. D.C. 13 | 37130 |
| Fast Scarlet RC | Az. D.C. 13 | 37130 |
| Fast Red KB | Az. D.C. 32 | 37090 |
| Fast Red TR | Az. D.C. 11 | 37085 |
| Fast Red RC | Az. D.C. 10 | 37120 |
| Fast Red B | Az. D.C. 5 | 37125 |
| Fast Red RL | Az. D.C. 34 | 37100 |
| Fast Red 3GL | Az. D.C. 9 | 37040 |
| Fast Boardeaux GP | Az. D.C. 1 | 37135 |
| Fast Violet B | Az. D.C. 41 | 37165 |
| Fast Blue BB | Az. D.C. 20 | 37175 |



VIPULTHOL AS
ACC - 2
C.I. No. 37505

| Vipulthol (gms/l) | Base (gms/l) | Fastness to | | |
|-------------------|--------------|-------------|---------|----------|
| | | Light | Washing | Chlorine |

| | | | | | | |
|--|--------------------------|-----|-----|-----|-----|-----|
|  | Fast Yellow GC Base | 3.0 | 1.7 | 4 | 3 | 4-5 |
|  | Fast Orange GC Base | 3.0 | 1.7 | 5-6 | 3-4 | 4 |
|  | Fast Scarlet G Base | 3.0 | 1.5 | 6 | 3-4 | 4-5 |
|  | Fast Scarlet GGS Base | 3.0 | 2.3 | 6 | 3-4 | 5 |
|  | Fast Scarlet R Base | 3.0 | 2.3 | 5 | 3-4 | 4-5 |
|  | Fast Red B Base | 3.0 | 1.8 | 5 | 3 | 4-5 |
|  | Fast Red RC Base | 3.0 | 2.0 | 4 | 3-4 | 4-5 |
|  | Fast Red TR Base | 3.0 | 2.0 | 4-5 | 3 | 5 |
|  | Fast Red GL Base | 3.0 | 1.5 | 6 | 2-3 | 4-5 |
|  | Fast Bordeaux GP Base | 3.0 | 1.8 | 5 | 3 | 5 |
|  | Fast Garnet GBC Base | 3.0 | 2.8 | 4 | 3-4 | 4-5 |
|  | Fast Violet B Base | 1.5 | 2.0 | 5 | 5 | 5 |
|  | Fast Blue B Base | 1.5 | 1.0 | 3 | 4-5 | 4 |



VIPULTHOL AS-BO
ACC-4
C.I. No. 37560

| Vipulthol (gms/l) | Base (gms/l) | Fastness to | | |
|-------------------|--------------|-------------|---------|----------|
| | | Light | Washing | Chlorine |

| | | | | | | |
|--|--------------------------|-----|-----|-----|-----|-----|
| | Fast Scarlet G Base | 4.0 | 1.5 | 5-6 | 4 | 5 |
| | Fast Scarlet GGS Base | 4.0 | 2.3 | 6 | 3-4 | 4 |
| | Fast Scarlet RC Base | 4.0 | 2.3 | 5-6 | 4 | 4 |
| | Fast Red B Base | 4.0 | 1.8 | 6-7 | 3-4 | 4 |
| | Fast Red GL Base | 4.0 | 1.5 | 6-7 | 3-4 | 4 |
| | Fast Red KB Base | 4.0 | 2.0 | 5-6 | 3-4 | 4-5 |
| | Fast Red RL Base | 4.0 | 1.5 | 5 | 4 | 4 |
| | Fast Red TR Base | 4.0 | 2.0 | 5 | 3-4 | 4 |
| | Fast Bordeaux GP Base | 4.0 | 1.8 | 6-7 | 3 | 4-5 |
| | Fast Garnet GBC Base | 4.0 | 2.8 | 6 | 4 | 4-5 |
| | Fast Violet B Base | 2.0 | 2.0 | 4 | 4-5 | 4-5 |
| | Fast Blue B Base | 2.0 | 1.0 | 4 | 4 | 3 |
| | Fast Blue BB Base | 2.0 | 2.4 | 4-5 | 5 | 3-4 |



VIPULTHOL AS-SW
ACC - 7
C.I. No. 37565

| Vipulthol (gms/l) | Base (gms/l) | Fastness to | | |
|-------------------|--------------|-------------|---------|----------|
| | | Light | Washing | Chlorine |

| | | | | | | |
|--|--------------------------|-----|-----|-----|-----|-----|
| | Fast Yellow GC Base | 2.0 | 1.7 | 5-6 | 4 | 4 |
| | Fast Orange GC Base | 2.0 | 1.7 | 5 | 3 | 4-5 |
| | Fast Scarlet G Base | 2.0 | 1.5 | 5-6 | 4 | 4-5 |
| | Fast Scarlet GGS Base | 2.0 | 2.3 | 5-6 | 3-4 | 4-5 |
| | Fast Scarlet RC Base | 2.0 | 2.3 | 5 | 3-4 | 5 |
| | Fast Red B Base | 2.0 | 1.8 | 5 | 3 | 3-4 |
| | Fast Red GL Base | 2.0 | 1.5 | 5-6 | 4 | 5 |
| | Fast Red KB Base | 2.0 | 2.0 | 5 | 5 | 5 |
| | Fast Red RC Base | 2.0 | 2.0 | 5 | 4 | 4-5 |
| | Fast Bordeaux GP Base | 2.0 | 1.8 | 6 | 3 | 4 |
| | Fast Garnet GBC Base | 2.0 | 2.8 | 4-5 | 4 | 4-5 |
| | Fast Violet B Base | 1.0 | 2.0 | 4-5 | 5 | 4-5 |
| | Fast Blue BB Base | 1.0 | 2.4 | 4-5 | 5 | 4 |



VIPULTHOL AS-TR
ACC-8
C.I. No. 37525

Vipulthol (gms/l)

Base (gms/l)

Fastness
to

Light

Washing

Chlorine



| | | | | | |
|-----------------------|------|-----|-----|-----|-----|
| Fast Orange GC Base | 4.5 | 1.7 | 6 | 4 | 4-5 |
| Fast Scarlet G Base | 4.5 | 1.5 | 4-5 | 3-4 | 4 |
| Fast Scarlet GGS Base | 4.5 | 2.3 | 6 | 2-3 | 3-4 |
| Fast Scarlet RC Base | 4.5 | 2.3 | 5-6 | 3-4 | 5 |
| Fast Red B Base | 4.5 | 1.8 | 6 | 3 | 4-5 |
| Fast Red GL Base | 4.5 | 1.5 | 5-6 | 4 | 4 |
| Fast Red KB Base | 4.5 | 2.0 | 5-6 | 4 | 5 |
| Fast Red RC Base | 4.5 | 2.0 | 4 | 4-5 | 4-5 |
| Fast Red TR Base | 4.5 | 2.0 | 5 | 5 | 5 |
| Fast Bordeaux GP Base | 4.5 | 1.8 | 6 | 3 | 5 |
| Fast Garnet GBC Base | 4.5 | 2.8 | 5 | 4-5 | 4-5 |
| Fast Violet B Base | 2.25 | 2.0 | 5 | 5 | 5 |
| Fast Blue BB Base | 2.25 | 2.4 | 5 | 5 | 4-5 |



VIPULTHOL AS-OL
ACC - 20
C.I. No. 37530

| Vipulthol (gms./l) | Base (gms./l) | Fastness to | | |
|--------------------|---------------|-------------|---------|----------|
| | | Light | Washing | Chlorine |



Fast
Orange GC Base

2.75 1.7 5-6 3-4 5



Fast
Scarlet G Base

2.75 1.5 5 4 4-5



Fast
Scarlet RC Base

2.75 2.3 5-6 3-4 5



Fast
Red B Base

2.75 1.8 6-7 3-4 4



Fast
Red RC Base

2.75 2.0 5 5 4-5



Fast
Red TR Base

2.75 2.0 5-6 3-4 4



Fast
Red RL Base

2.75 1.5 6-7 3 3



Fast
Bordeaux GP Base

2.75 1.8 6-7 4 5



Fast
Violet B Base

1.25 2.0 5 5 4-5



Fast
Blue BB Base

1.5 2.4 5 5 4

VIPULTHOL AS-PH
ACC - 14
C.I. No. 37558



Fast
Red KB Base

5.0 2.0 5-6 4 4-5









Fast
Red RL Base

5.0 1.5 6 4 5



VIPULTHOL AS-G
ACC - 5
C.I. No. 37610

| Vipulthol (gms/l) | Base (gms/l) | Fastness to | | |
|-------------------|--------------|-------------|---------|----------|
| | | Light | Washing | Chlorine |

| | | | | | | |
|--|--------------------------|-----|-----|-----|-----|-----|
|  | Fast Yellow GC Base | 3.0 | 1.7 | 5 | 5 | 3-4 |
|  | Fast Red RC Base | 3.0 | 2.0 | 4-5 | 4-5 | 4-5 |
|  | Fast Red KB Base | 3.0 | 2.0 | 4-5 | 5 | 4-5 |
|  | Fast Red B Base | 3.0 | 1.8 | 5 | 4-5 | 4-5 |
|  | Fast Bordeaux GP Base | 3.0 | 1.8 | 4-5 | 4 | 4 |
|  | Fast Garnet GBC Base | 3.0 | 2.8 | 4-5 | 4 | 4 |

VIPULTHOL AS-BS
ACC - 17
C.I. No. 37515

| | | | | | | |
|--|--------------------------|-----|-----|-----|-----|-----|
|  | Fast Scarlet G Base | 5.0 | 1.5 | 4 | 2-3 | 4-5 |
|  | Fast Scarlet RC Base | 5.0 | 2.3 | 4 | 3 | 4-5 |
|  | Fast Red GL Base | 5.0 | 1.5 | 3-4 | 2-3 | 4 |
|  | Fast Red B Base | 5.0 | 1.8 | 4 | 2-3 | 4-5 |
|  | Fast Bordeaux GP Base | 5.0 | 1.8 | 4 | 3 | 4-5 |
|  | Fast Garnet GBC Base | 5.0 | 2.8 | 4-5 | 3 | 4-5 |

* ACC = Azoic Coupling Component









VIPULTHOL AS-D

ACC - 18

C.I. No. 37520







| Vipulthol (gms/l) | Base (gms/l) | Fastness to | | |
|-------------------|--------------|-------------|---------|----------|
| | | Light | Washing | Chlorine |

| | | | | | | |
|--|-----------------------|-----|-----|-----|-----|-----|
|  | Fast Orange GC Base | 3.0 | 1.7 | 4-5 | 3 | 4-5 |
|  | Fast Scarlet G Base | 3.0 | 1.5 | 5 | 3-4 | 4-5 |
|  | Fast Scarlet RC Base | 3.0 | 2.3 | 5 | 3-4 | 5 |
|  | Fast Red TR Base | 3.0 | 2.0 | 5 | 3 | 5 |
|  | Fast Bordeaux GP Base | 3.0 | 1.8 | 5 | 3 | 5 |
|  | Fast Blue B Base | 1.5 | 1.0 | 3 | 4 | 4 |

VIPULTHOL AS-E

ACC - 10

C.I. No. 37510

| | | | | | | |
|--|----------------------|------|-----|-----|-----|-----|
|  | Fast Scarlet G Base | 4.5 | 1.5 | 3 | 4 | 4 |
|  | Fast Red KB Base | 4.5 | 2.0 | 3-4 | 4 | 4-5 |
|  | Fast Scarlet RC Base | 4.5 | 2.3 | 4 | 2 | 4 |
|  | Fast Garnet GBC Base | 4.5 | 2.8 | 5 | 4-5 | 4-5 |
|  | Fast Violet B Base | 2.25 | 2.0 | 4 | 5 | 5 |
|  | Fast Blue BB Base | 2.25 | 2.4 | 4-5 | 5 | 4 |

We also offer following to be used in combination with Naphthols

Fast Red B Salt
Fast Red TR Salt
Fast Bordeaux. GP Salt
Fast Scarlet R Salt
Fast Scarlet RC Salt
Fast Blue B Salt
Fast Red RC Salt
Fast Yellow GC Salt
Fast Orange GC Salt
Fast Black K Salt

Besides this we can also offer Reactive Dyes, Acid Dyes, Leather Black, intermediates like H-Acid, Gamma Acid, M.N.A., M.C.A., B.D.H., Di-Anisidine Base, Sulphotobias Acid, etc.

Our Associates

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AHMEDNAGAR
AMAR TRADING CORPORATION, BOMBAY

Vipul Dyes and Chemicals Pvt. Ltd.

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