



MIRACHEM INDUSTRIES

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TECHNICAL LITERATURE

MIRACOL – BSND

Dispersing & complexing agent with protective colloid properties.

Most suitable for use in various stages of dyeing process for cotton and its blends of cotton fibres.





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Salient Features:

- Exhibits an excellent dispersing effect on the impurities contained in raw cotton.
- Built with moderate complexing effect on metal ions.
- Prevents Calcium and Magnesium ions from impairing the solubility of anionic dyes and their affinity for cotton.
- Does not affect the shade or the fastness of textiles dyed with Reactive or Direct dyes containing metal ions.
- Does not impair the solubility of anionic dyes and their affinity for cotton.
- Hydrolyzed reactive dyes are prevented from forming calcium salts, which are difficult to wash out in hard water.
- Does not make any contribution to the AOX of the wastewater.
- Low foaming & has no affinity for anionic dyes.





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Properties:

Appearance : Pale yellow transparent liquid

Chemical Nature : Acrylate copolymers

Ionic Nature : Weakly Anionic

Solubility : Soluble in cold water

pH (2 % Solution) : 9.0 – 11.0

Stability : Resist to Hard Water

Stability to Alkalis : Stable (up to 40.0 gpl)

Compatibility with

• Anionic products : Good

• Nonionic products : Good

Storage Stability : Stable for 6 months

(When stored in a cool & dry place)





Method of Application:

Miracol – BSND can be used in various stages of dyeing processes for cotton & blends of cotton, such as: -

1. FOR PREPARATION AND BLEACHING PROCESSES:

Miracol – BSND → 1.0 – 2.0 gpl is recommended in the liquor

2. DYEING COTTON WITH REACTIVE & DIRECT DYES

Carbonate precipitation may occur during raw cotton dyeing with reactive or direct dyes due to hard water use for dyeing.

Miracol – BSND ensures that the Calcium Carbonate that forms during the dyeing process is kept finely dispersed.

Miracol – BSND does not break down metal complex dyes and has no detrimental effect on the shade of fastness.

Recommended Dosage:

Miracol – BSND → 1.0 – 4.0 gpl

3. DYEING COTTON WITH VAT DYES:

High concentrations of Calcium and Magnesium ions contained in raw cotton react with vat dyes. (e.g. Navinon Blue BC) and cause them to precipitate.





Due to its complexing action **Miracol – BSND** can be used to eliminate all precipitation in moderately hard water.

Recommended Dosage:

Miracol – BSND → 1.0 – 4.0 gpl

4. IN SOAPING OF REACTIVE DYED AND PRINTED COTTONS :

Miracol – BSND → 1.0 – 2.0 gpl along with soap at boil for 20 mins.

5. WASHING OFF ROLLS AFTER SILICATE PADDING:

Miracol – BSND works efficiently as an silicate deposit washing off agent for the silicate padding rolls when water containing **Miracol – BSND** → 5 gpl is sprayed over the rolls by spray pipe along the width of the rolls ensuring total silicate wash off.

Miracol – BSND can also be incorporated along with alkaline sodium silicate during silicate padding of reactive printed/dyed fabric. This will ensure total silicate free washing of padding rolls when subjected for washing after process is over.





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General safety instructions:

General safety rules for handling chemicals should be observed in storage, handling and use. The product should not be swallowed. For further information, please consult existing safety data sheet.

Note :

The data contained in this communication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. Responsibility for compliance with the requirements of the downstream textile market rests with the textile processor.

Contact Information:

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