



# MIRACHEM INDUSTRIES

B-310, Virwani Industrial Estate  
Off Western Express Highway  
Goregaon (East), Mumbai - 400 063. India  
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## TECHNICAL LITERATURE

### EMSEK – ET

**Emsek – ET** is an organic sequestrant with excellent chelating action on calcium, magnesium, iron and copper for the treatment of hard water and heavy metal ions over a wide range of pH and temperature in preparation, colouration and finishing processes



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#### Salient Features:

- Possesses high hydrolytic stability and maintains its sequestering activity across a wide pH range
- Improves brightness in cottons during scouring and bleaching and in washing-off of coloured fabrics
- Protects the fibres against catalytic damage during peroxide bleaching
- Prevents deposits of silicates on fibres and machineries in bleaching.
- Reduces harsh feel on fibre.
- Eliminates tendency of salt precipitation during print paste preparations
- Forms very little foam
- Is universally applicable, i.e. in continuous and discontinuous processes



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#### Properties:

|                    |                         |
|--------------------|-------------------------|
| Appearance         | : Colourless liquid     |
| Chemical Nature    | : Organo phosphonates   |
| Ionic Nature       | : Weakly Anionic        |
| Solubility         | : Soluble in cold water |
| pH ( 2% Solution ) | : 6.5 – 7.5             |
| Stability          | : Resist to hard water  |
| Foam Formation     | : Very low              |

#### Stability with:

- Salts : Good
- Acids & Alkalis : Good
- Oxidising agents : Good

#### Compatibility with:

- Anionic products : Good
- Nonionic products : Good
- Cationic products : Good

Storage Stability : Stable for 6 months

(When stored in a cool & dry place)



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#### Method of Application:

##### 1. Water softening :

The amount of **Emsek – ET** to be added depends on hardness of water and the metal impurities in the cotton

Recommended Dosage → 2.0 – 3.0 g/l .

Addition of **Emsek – ET** should be made to the processing liquor at the commencement of the process.

##### 2. Binding metal ions:

The addition of **Emsek – ET** is recommended when hard water is used, but it is also suitable to convert traces of metal ions still present in softened water into a harmless form.



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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.

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#### Contact Information:

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