



MIRACHEM INDUSTRIES

B-310, Virwani Industrial Estate
Off Western Express Highway
Goregaon (East), Mumbai - 400 063, India
Tel.: +91 22 42417575 / 29271378
Fax: +91 22 42417550

www.mirachemindustries.com
Email:
admin@mirachemindustries.com
mirachem@bom5.vsnl.net.in
mirachemindustries@gmail.com

TECHNICAL LITERATURE

EMFRISOL - B

Anticatalytical, dispersant and stabilizing agent. Effective in the alkaline peroxide bleach. Promotes the degree of whiteness and absorbency.





Salient Features:

- Improves stabilization of the peroxide.

- Improves degree of whiteness and absorbency.

- Stable to bleaching liquors and in boiling off liquors.

- Use of **Emfrisol - B** promotes the removal of impurities of the cotton.





Properties:

Appearance	: Yellow Liquid.
Chemical Nature	: Blend of Surfactants
Ionic Nature	: Anionic.
Solubility	: Soluble in cold water.
pH (2% solution)	: 3.0 ± 1.0

Compatibility with

- Enzymes : Good.
- Electrolytes : Good.
- Oxidising agents : Good.
- Reducing agents : Good.

Storage Stability : Stable for 3 months.

(When stored in a cool & dry place)





Method of Application:

Peroxide cold bleach :

Hydrogen Peroxide 35 %	→	50 ml/l
NaOH Lye	→	25 g/l
Miralyzer Cipha Liquid	→	8 ml/l
Emfrisol - B	→	2 ml/l
Quick Scour – T	→	5 ml/l

Impregnating temperature	Room temperature (max. 40 ⁰ C)
Liquor pick – up	100 %
Reaction time	24 hours.

Peroxide hot bleach in combination steamer (boiled – off cotton fabrics) :

Hydrogen Peroxide 35 %	→	30 ml/l
NaOH 100 %	→	6 g/l
Miralyzer Cipha Liquid	→	5 ml/l
Emfrisol - B	→	2 ml/l
Emscour – SA	→	5 ml/l

Impregnating temperature	Room temperature (max. 40 ⁰ C)
Liquor pick – up	100 %
Reaction time	24 hours.
Steaming time	15 – 20 mins.





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Soft bleach system :

Peroxide bleach in combination steamer with “ high add – on ” applicator (cotton fabrics, desized with Emcozyme – 73 system).

Hydrogen Peroxide 35 %	→	40 ml/kg
NaOH 100 %	→	16 g/kg
Miralyzer Cipha Liquid	→	5 ml/kg
Emfrisol - B	→	2 ml/kg
Emscour – SA	→	2 ml/kg

Impregnating temperature	Room temperature (max. 40 ⁰ C)
Liquor pick – up	e.g. 130 %
Steaming temperature	100 ⁰ C
Steaming time	15 – 20 mins.

Under – liquor bleach (Continuous) :

Cotton knitgoods

Hydrogen Peroxide 35 %	→	20 ml/l
NaOH 100 %	→	3 g/l
Miralyzer Cipha Liquid	→	4 ml/l
Emfrisol - B	→	2 ml/l
Embleach - TA	→	2 ml/l

Replenishing liquor in terms of fabric weight

Impregnating temperature	Room temperature (max. 40 ⁰ C)
Bleaching temperature	70 – 80 ⁰ C
Bleaching time	30 mins.





Peroxide bleach in long liquor :

A) Cotton knitgoods in the jet

Hydrogen Peroxide 35 %	→	7 ml/l
NaOH 100 %	→	1.5 g/l
Miralyzer Cipha Liquid	→	1 ml/l
Emfrisol - B	→	1 ml/l
Embleach – TA	→	1 ml/l

Liquor ratio	10:1
Bleaching temperature	98 – 100°C
Bleaching time	45 mins.

B) Cotton yarn in circulating – liquor machines

Hydrogen Peroxide 35 %	→	7 ml/l
NaOH 100 %	→	1.5 g/l
Miralyzer Cipha Liquid	→	1 ml/l
Emfrisol - B	→	1 ml/l
Embleach – TA	→	0.5 ml/l

Liquor ratio	10:1
Bleaching temperature	98 – 100°C
Bleaching time	45 mins.





Alkaline boil – off in long liquor :

Cotton yarn

NaOH 100 % → 4 g/l

Emfrisol - B → 2 ml/l

Quick Scour – T → 1 ml/l

Liquor ratio 10:1

Treating temperature 98 – 100°C

Treating time 30 mins.





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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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INDIA

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