

MAGNASOFT* 2059

textile softener

SPECIALTY FLUIDS - TEXTILES & LEATHER



Magnasoft 2059 textile softener is a self-cross-linkable silicone emulsion of an amino-functional silicone polymer in water. This product cures to an elastomeric film without the need for a catalyst.

Magnasoft 2059 textile softener is manufactured without alkyl phenol-based chemicals (APEO).

Key Features and Typical Benefits

- Forms a film as soon as the water evaporates
- Outstanding slickness along with soft hand-feel
- Exceptional stretch recovery and bouncy hand-feel to all types of fabrics
- Minimizes wrinkles on fabrics
- Moderate water repellent
- Good shear stability
- Typically economical to use
- Produced without alkyl phenol-based chemicals (APEO)

Potential Applications

- Virtually any type of fabric requiring excellent smoothness and bouncy softness
- Mercerized cotton knits
- Wool/wool-blended knits and worsted wool woven
- Fiber and thread lubricants
- Improved softness in wrinkle-free finish
- Hand-feel modifier for PU leather and natural leather

Typical Physical Properties

| Property | Value |
|---------------------------------|--------------------|
| Appearance | Milky white liquid |
| Solid Content (%) | 35 |
| Viscosity, 25 °C, #3/6 | < 50 cPs |
| Specific Gravity, 25 °C (77 °F) | 1.0 |
| Ionic Character | Cationic |
| Suitable Dilutant | Water |

Typical properties are average data and are not to be used as or to develop specifications.

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General Instructions for Use

Magnasoft 2059 textile softener is provided in a ready-to-use, high-solids content form that can be applied as received. Because of its high solids content, however, it is advisable to dilute Magnasoft 2059 textile softener prior to adding to the textile finish bath.

The optimum dosage depends on the required softness, type of fabric and fabric finish conditions, but the following are common initial rates.

1. Pad-dry-cure continuous process

| | | |
|-------------|---|------------------------------|
| Dosage | : | 10 ~ 30 g/L |
| pH | : | 6.0 ~ 8.0 |
| Temperature | : | Ambient |
| Pick-up | : | 65 ~ 100% |
| Drying | : | 100 ~ 130 °C x 1 - 3 minutes |

2. Exhaustion process

| | | |
|--------------|---|------------------------------------|
| Dosage | : | 1.0 ~ 3.0% on the weight of fabric |
| Liquor Ratio | : | 1/10 ~ 1/20 |
| pH | : | 6.0 ~ 8.0 |
| Temperature | : | 20 ~ 40 °C |
| Time | : | 15 ~ 30 minutes |
| Drying | : | 100 ~ 120 °C |

Cure Properties

Upon evaporation of water, the product will cure to an elastomeric film.

Precautions

[1] Dilute with cold or warm water

Magnasoft 2059 textile softener is generally stable in hard water. However, should the water supply be of 200ppm hardness or higher, softened water or boiler condensate is recommended as a diluent.

[2] Compatibility

Magnasoft 2059 textile softener may not be compatible with certain materials, such as anionics, lower alcohols, salts, etc., which may break the silicone emulsion. Any mixture of reactive emulsions with other materials should be thoroughly checked before it is put into factory production.

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Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. MSDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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