

MAGNASOFT® ESC

textile softener

SPECIALTY FLUIDS - TEXTILES & LEATHER



Magnasoft ESC textile softener, based on revolutionary silicone molecules, can help deliver voluminous and silky softness to a variety of fabrics. It also can impart hydrophilicity to most types of fabrics, typically at lower use levels than other silicone softeners. It is very stable in routine textile finishing processes.

Like Magnasoft SRS textile enhancer and Magnasoft JSS textile enhancer, Magnasoft ESC textile softener is based on a patented, linear (AB)_n block-copolymer platform. In addition, Magnasoft ESC textile softener typically has superior affinity to textiles and is more durable compared to conventional hydrophilic and amino-silicone softeners.

This product is not only able to coat the fiber surface to deliver an exceptionally full and rich softness, but it can also penetrate homogeneously into the interior of natural fibers and modify every single fiber, thereby making the fabric premium.

Since Magnasoft ESC textile softener is water-dispersible, it can be used as received in padding and exhaustion applications in textile mills that require outstanding shear stability. This enhanced stability minimizes oil spotting on fabrics when applied in the textile finishing process.

Key Features and Typical Benefits

- Water dispersible, thus ready to use in textile mills
- Very stable in routine textile finishing processes
- Imparts volume and silky softness as opposed to a greasy feel
- Excellent affinity to all types of textiles
- Fiber elasticity and shape recovery
- Durable softness to laundering
- Virtually no fabric yellowing
- Good hydrophilicity
- Exhausts efficiently on natural fibers
- Concentrated, thus typically economical

Potential Applications

Magnasoft ESC textile softener can be used on most types of fabrics, but the performance is maximized when applied to the fabrics listed below.

- Cotton and cotton-blended knits and woven
- Cotton denim and corduroy
- Cotton/spandex-blended fabric
- Wool and wool-blended knits and woven
- Viscose rayon, CVC and acetate woven
- Polyester-woven

Typical Physical Properties

Property	Value
Appearance	Clear to slightly yellowish liquid
Solid Content (%)	63.5
Viscosity, 25 °C, #3/6	< 10,000 cPs
pH (25 °C)	6
Ionic Character	Slightly 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

Since Magnasoft ESC textile softener is a concentrate that can be readily diluted in water, no additional emulsification is required when applying directly in the textile finishing process.

Magnasoft ESC textile softener can be used as received or pre-diluted with water before application. The optimum dosage is dependent on the required softness of the fabric and yarn after dyeing and rinsing.

1. Pad-dry-cure continuous process

Dosage : 4 ~ 6 g/L for light fabric or
6 ~ 10 g/L for heavy fabric
pH : 6.0 ~ 8.0
Temperature : Room temperature
Pick-up : 65 ~ 100%
Drying : 100 ~ 130 °C x 1 ~ 3 minutes

2. Exhaustion process

Dosage : 0.6 ~ 1.5% of the weight of the fabric
Liquor ratio : 1/10 ~ 1/20
pH : 6.0 ~ 8.0
Temperature : Room temperature
Time : 20 ~ 30 minutes
Drying : 100 ~ 130 °C

3. Garment washing process

Dosage : 0.6 ~ 1.5% of the weight of the garment
Condition : Same as exhaustion process

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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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