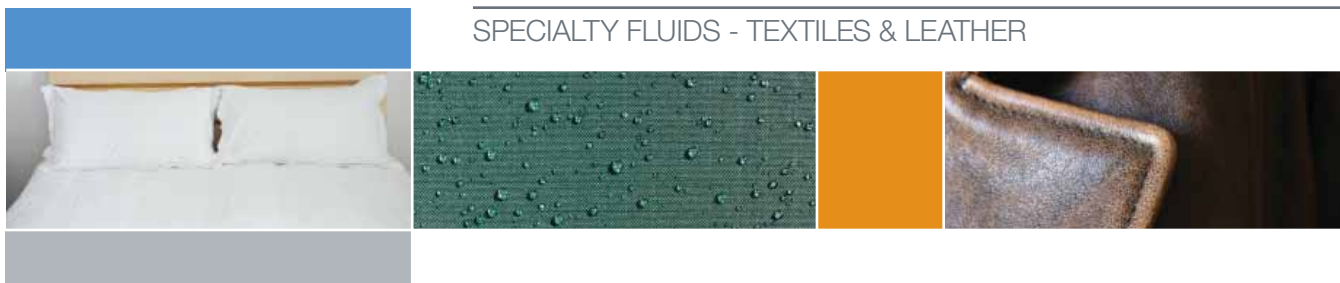


MAGNASOFT* CS-1 textile softener

SPECIALTY FLUIDS - TEXTILES & LEATHER



Magnasoft CS-1 textile softener is a linear silicone copolymer emulsion that can help impart durable softness and slickness with virtually no fabric yellowing to a broad range of fabrics, including wool and cashmere, that require a silky and moisturizing hand.

Because of good shear stability at high temperatures and alkaline conditions, it is an excellent candidate to consider for use in tough application conditions such as jet finishing and over-flow finishing, in addition to normal exhaustion and pad-bath finishing for fabrics.

Key Features and Typical Benefits

- Slippery, full and in-depth softness as opposed to a greasy hand feel on virtually all types of fabrics including wool, cashmere, polyester, polyester blends and acrylic fabrics
- Due to good shear stability at high temperatures up to 80 °C and alkaline conditions (pH 10), applicable in most types of textile finishing process
- Compatible with most organic softeners, durable press resins, optical brightening agents and anti-static agents typically used in the textile finishing bath
- May enhance stretch recovery with a bouncy and drapable effect, including on wool and cashmere
- Ready-to-use: Water dispersible and/or water dilutable
- Causes virtually no yellowing of white and light shade fabrics
- Typically does not affect the shade of dark color fabrics
- Potentially re-dyeable and over-dyeable
- Contains no added alkyl phenol-based chemicals

Typical Physical Properties

Property	Unit	Value
Appearance	–	Milky white liquid
pH	–	5.0
Viscosity (#1, 60rpm, 25 °C)	cPs	30
Ionic Characteristics	–	Non-ionic

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

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Potential Applications

Magnasoft CS-1 textile softener can be easily applied with or without pre-dilution in either exhaustion or padding textile finishing processes. It can be considered for use with virtually all types of fabrics, including wool and cashmere.

The use level of Magnasoft CS-1 textile softener is subject to the softness required, type of fabric and textile finishing process, but the typical use level and conditions are as follows.

1. *Pad – dry – cure continuous process for woolen woven goods*

Dosage	: 20 g/L (light fabric) – 35 g/L (heavy fabric)
pH	: 5.0 - 6.0
Temperature	: 20 - 30 °C
Pick-up	: 65 - 85%
Drying	: 100 - 110 °C

2. *Exhaustion process for cashmere knitted garments Pre-treatment (lubricants, dirt & grease removal) → rinsing → draining → softening → draining → drying*

Dosage	: 3.0 ~ 5.0% of the weight of the fabric
Liquor Ratio	: 1/8 ~ 1/10
pH	: 5.0 ~ 6.0
Temperature	: 20 ~ 40 °C
Time	: 15 ~ 30 minutes
Drying	: 100 ~ 120 °C

Precaution During Use

- Ensure that the Magnasoft CS-1 textile softener solution is completely homogenous before use.
- Clean the pad bath/exhaustion bath before applying Magnasoft CS-1 textile softener and keep the mangle clean while finishing.
- The softness imparted by Magnasoft CS-1 textile softener is maximized 24 hours after treatment due to the complete orientation and relaxation of the silicone polymer on the fabric treated.

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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.

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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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