

## Magnasoft™ CJS Textile Enhancer

### Product Description

Momentive Performance Materials introduces the new Magnasoft CJS textile enhancer, enriching our well-known product line that includes Magnasoft SRS textile softener and Magnasoft DerMa NT textile enhancer, and addressing the needs of the industry. Textile mills expect an array of benefits from their softeners, including softness, quick water absorption, color and/or shade protection and easy processability for mass textile finishing – and all of these are required at the lowest possible cost.

Magnasoft CJS textile enhancer is a virtually 100% active, linear ABn high molecular weight silicone copolymer that is an excellent candidate to consider for providing a luxuriously smooth and silky softness, with dry feel, to virtually all types of cellulosic, regenerated cellulosic and cellulosic blends of fabrics / garments. It also can help provide excellent hydrophilicity. In addition, unlike conventional silicone softeners, it can help retain natural cotton feel on cotton knits and sheets.

Due to its high copolymer actives content, Magnasoft CJS textile enhancer must be emulsified before use. Emulsification can be easily achieved with simple mixers and commonly available emulsifiers.

Emulsions of Magnasoft CJS textile enhancer have exhibited good shear stability at extremes of pH and temperature in tests conducted in our laboratories. Such results indicate that Magnasoft CJS textile enhancer may be applied onto fabrics using most types of finishing equipment, including exhaustion, high-speed padding, jet finishing, kiss-roll, spraying and others.

### Key Features and Typical Benefits

- Helps provide smooth, silky, rich and in-depth softness with dry/cool feel on virtually all types of cellulosic fabrics
- Helps preserve natural feel on cotton knits and sheets
- Due to excellent exhaustibility and affinity with cellulosic fibers, it helps provide unusually softness effect at low use levels
- Minimal impact on the hydrophilic nature of cotton and cotton blends; typically provides quick absorption
- Potentially improved economics due to its highly concentrated nature
- Easily emulsified by using simple mixing devices and procedure; typically generates emulsions that possess high shear and pH stability (acid and alkaline)
- Virtually no yellowing of white and light shade fabrics
- Typically does not affect the shade of dark color fabrics

### Typical Physical Properties

Appearance	Clear to hazy yellow liquid
Viscosity at 25 °C, cps	20,000
Density at 25 °C, g/cm <sup>3</sup>	0.99
Flash Point (ASTM D93), °C	79

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

### Potential Applications

Magnasoft CJS textile enhancer is an excellent softener to consider for the delivery of a wide range of advantages to virtually all types of cellulose fabrics. It can be particularly effective on cotton knits, cotton bed sheets and enzyme-treated cotton goods where it can help provide smooth, silky, and in-depth softness with dry/cool feel as well as quick absorption, in addition to the typical silicone softener effects.

Magnasoft CJS textile enhancer is usually applied as a water emulsion. Because of its polar nature, Magnasoft CJS textile enhancer can be easily dispersed in water using emulsifiers in simple mixing devices and containers widely available throughout the industry. There is usually no need for homogenization or colloid milling to emulsify Magnasoft CJS textile enhancer.

In tests conducted in our laboratories, emulsions of Magnasoft CJS textile enhancer generally possessed extraordinary shear stability over a wide pH range (3~12), at high temperatures and in the presence of salts. These test results indicate that Magnasoft CJS textile enhancer may be applied under very demanding conditions, such as the high-speed continuous pad-bath finishing, jet finishing, foam and spraying finishing processes typically used for mass textile finishing, which may lead to potentially considerable costs savings for textile mills.

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Optimal dose levels of Magnasoft CJS textile enhancer depend on the type of fabric and level of softness required, but 20~50 g/l of 10% silicone actives emulsion is typically recommended as a starting point. In the textile finishing process, an acidic textile finishing bath is most desirable because the softness imparted by Magnasoft CJS textile enhancer is generally maximized at a bath pH of 4.5~5.5.

Magnasoft CJS textile enhancer may be combined, blended or formulated with a broad range of cationic and/or nonionic textile auxiliaries, as well as with other silicone materials, to help provide differentiated finished fabric performance. Generally, these include organic quats, amphoteric (botanics) or imidazolines, alkylamine ester, fatty acid amide, ethoxylated/propoxylated surfactants, polyethylene wax emulsions, starch, other water soluble or emulsifiable polymers, amino silicones, amino/polyether silicones or other silicone emulsions. Such formulations may be developed for use in specific applications such as textile finishing, spin finishes, thread lubrication, etc.

### **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 Safety Data Sheet (SDS) 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. SDS are available at [www.momentive.com](http://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.

## Customer Service Centers

For additional information, please contact our Customer Service Team

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