

MAGNASOFT* NeoNYS textile softener

SPECIALTY FLUIDS - TEXTILES & LEATHER



Magnasoft NeoNYS textile softener is an epoxy functional silicone softener and water repellent that utilizes polymerization technology. The softness of fabrics treated with Magnasoft NeoNYS textile softener is typically substantially different from that achieved with either amino-silicone softeners or conventional epoxy silicone softeners mechanically emulsified with epoxy silicone fluid.

Magnasoft NeoNYS textile softener is formulated without any alkyl phenol-based chemicals.

Key Features and Typical Benefits

- Virtually no fabric yellowing
- Outstanding dry, slippery and drapeable softness that is substantially different from the softness imparted by amino-silicone softeners or conventional epoxy silicone softeners
- Durable softness on various types of fabric
- Remarkable water repellence and elasticity in treated cotton fabrics
- Improves softness of fabric treated with fluorocarbon water repellent finish when co-applied in the same bath
- Good shear stability
- Typically economical to use
- Produced without alkyl phenol-based chemicals (APEO)

Potential Applications

- Suede fabric softener
- Cotton and cotton-blend knits and woven fabric softener
- Cotton denim and corduroy softener
- Cotton/spandex-blend softener
- Viscose rayon and acetate fabric softener
- Polyester-woven fabric softener
- Water repellent for most types of fabrics

Typical Physical Properties

Property	Value
Appearance	Milky white liquid
Solid Content (%)	32.5
Viscosity, 1/60 rpm (25 °C), cPs	< 50
Specific Gravity, 25 °C (77 °F)	1.0
pH	8
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

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

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

1. Pad-dry 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 : 20 ~ 30 minutes
Drying : 100 ~ 130 °C

Performance Data

1) Test Conditions

Test fabric	100% cotton woven
Treating condition	Padding (pick up 70%) → Drying (130 °C, 3 minutes)
Evaluation of softness	KES-FB2 Automatic Pure Bending Tester. Softness: (B+2HB)/2
Evaluation of smoothness	KES-FB4 Automatic Surface Tester MIU: Mean friction co-efficient
Evaluation of yellowing	Delta b value measured after 150 °C for 2 minutes by color differential tester on treated fabric

2) Test Results

Softener Samples (dosage, same cost based)	Hand-feel	Softness ⁽¹⁾ (B+2HB)/2	Smoothness MIU ⁽²⁾	Yellowing ⁽³⁾ (Delta b)
Untreated	Harsh	0.0673	0.189	0
Magnasoft NeoNYS textile softener	Dry touch	0.0357	0.131	0.57
Magnasoft 175 textile softener	Slippery	0.0388	0.120	1.08

Note: (1) The smaller the number, the softer the touch
(2) The smaller the number, the smoother the touch
(3) The smaller the number, the less yellowing

Test data. Actual results may vary.

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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.

Customer Service Centers

Worldwide

4information@momentive.com

+1 614 986 2495 / T +1 800 295 2392

North America

Silicones

T +1 800 332 3390

Consumer Sealants/ Construction Sealants and Adhesives

T +1 877 943 7325

Latin America

South America

T +55 11 4534 9650

Mexico and Central America

T +52 55 2169 7670

Europe, Middle East, Africa and India

T +00 800 4321 1000 / +40 21 3111848

Pacific

China

T +800 820 0202 / +86 21 3860 4892

Japan

T +0120 975 400 / +81 276 20 6182

Korea

T +82 2 6201 4600

Malaysia

T +60 3 9206 1532

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260 Hudson River Road
Waterford, NY 12188 USA
momentive.com

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