

Magnasoft™ Derma NT Textile Enhancer

Product Description

Magnasoft Derma NT textile enhancer is a quat functional silicone copolymer with a repeating block structure that combines several chemical entities in one linear molecule. Close to self-emulsifiable, Magnasoft Derma NT textile enhancer can be applied by spray but is particularly well suited for exhaust applications, where its outstanding emulsion stability allows it to deliver full benefits to the end user.

Magnasoft Derma NT textile enhancer is a new textile auxiliary agent designed to deliver a hydrophilic, voluminous, silky hand to all types of fabrics at lower use levels than other products and, very significantly, to retain these performance attributes through several home laundry cycles.

Key Features and Typical Benefits

- Combines a silky feel and a rich, bulky hand for a unique and unusually powerful softness effect
- Does not alter the hydrophilic nature of cotton and cotton blends
- Increases the hydrophilicity of synthetics
- Provides stretch recovery with a significant elastomeric effect, particularly on knits
- Gives in-depth softness
- Is effective on virtually all types of fibers
- Provides softness and durability effects that are fast to at least ten home laundry washes, and that are particularly pronounced with cellulosic fibers
- Almost self-emulsifiable; can generate emulsions that possess extreme shear and pH stability (acid and alkaline)
- Causes virtually no yellowing of white or light-shade goods
- Does not affect the color of dark fabrics
- Odor free

Typical Physical Properties

Appearance	Colorless to slightly brown fluid
Viscosity at 25 °C / 77 °F, cSt	15,000
Density, gr/cm ³	0.980

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

Potential Applications

Magnasoft Derma NT textile enhancer is a textile auxiliary agent that may add significant value to all types of knit and woven fabrics. Magnasoft Derma NT textile enhancer is particularly effective on knits where it provides the typical silicone softener effects and increases their stretch recovery. Magnasoft Derma NT textile enhancer is effective on woven fabrics and is compatible with durable press resin and fluorocarbon soil release finishes.

Magnasoft Derma NT textile enhancer is normally applied as a water emulsion. Due to its polar nature, Magnasoft Derma NT textile enhancer can be easily emulsified using simple mixing devices and containers widely available throughout the industry. There is no need for homogenization or colloid milling.

Emulsions of Magnasoft Derma NT textile enhancer possess extraordinary shear stability in a wide pH range (3-12) at temperatures up to boiling and in the presence of high concentrations of salts. Tests carried out in a jet dyer (liquor to goods ratio 1:10, 40 °C / 104 °F, pH 4-5, 20 min, pump level 6) demonstrated excellent emulsion stability. As a result, Magnasoft Derma NT textile enhancer can be used under very demanding conditions (jet finishing, EVAC, etc.).

Table 1: Microemulsion of Magnasoft Derma NT Textile Enhancer

Ingredients	20% Actives Formulation [weight %]	43% Actives Formulation [weight %]
Magnasoft Derma NT Textile Enhancer	23.5	50.6
Tridecyl Alcohol 6EO Ethoxylate	10.5	25.8
Tridecyl Alcohol 12EO Ethoxylate	1.8	4.45
Glacial Acetic Acid	0.4	1.00
Sodium Acetate	0.3	0.75
Water	63.5	17.4

Product formulations are included as illustrative examples only. Momentive makes no representation or warranty of any kind with respect to any such formulations, including, without limitation, concerning the efficacy or safety of any product manufactured using such formulations.

Procedure

- Charge Magnasoft Derma NT textile enhancer and ethoxylates. Mix well till fully homogeneous
- Dissolve sodium acetate and acetic acid into water
- Slowly add the water solution to silicone/surfactant blend while mixing. Avoid stirring too much air into the mixture
- Filter into the containers

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 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

AMERICAS	+1 800 295 2392 Toll Free* +704 805 6946 Direct Number
LATIN AMERICA	BRAZIL +55 11 4534 9650 Direct Number MEXICO +52 55 2169 7670 Direct Number *All American countries
EMEI - EUROPE, MIDDLE EAST, AFRICA & INDIA	EUROPE +390510924300 Direct Number INDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka
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260 Hudson River Road
Waterford, NY 12188 USA
momentive.com