

Magnasoft™ 800L Carboxyl-Terminated Silicone Fluid

Product Description

Magnasoft 800L is a silicone fluid end-blocked with carboxyl- functionality. It is an excellent candidate to consider for providing durable waterproofing to virtually all types of chrome-tanned leather that are tested by the Maeser method. In addition to waterproofing, Magnasoft 800L silicone fluid also enables a smoother and softer feel, with little to no yellowing and discoloration of leather.

Magnasoft 800L silicone fluid can be readily emulsified. Magnasoft 800L silicone fluid is applied in the leather wet-end processes to impart both hydrophobic fat-liquoring and softening performance. Magnasoft 800L silicone fluid may be compatible with organic fat-liquors typically used in leather wet-end processes.

Key Features and Typical Benefits

- Durable waterproofing for chrome-tanned leather
- Good reactivity with chromium salts of tanning agent
- May be compatible with chemicals used in fat-liquoring processes
- Limited impact on color and shade change
- Readily emulsified for leather wet-processing
- Good candidate to modify thermoplastic and/or thermosetting resins with silicone hybrid

Typical Physical Properties

Appearance	Pale yellow liquid
Viscosity at 23 °C, cSt	200
Refractive Index	1.42
COOH Content, %	4.5

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

Potential Applications

- Waterproof fatliquor for chromium-tanned leather, vegetable-tanned leather and fur
- Hand modifier with hydrophobicity for leather used in furniture, hand bags and garments
- Modifying for silicone hybrid thermoplastic and/or thermosetting resins if used as-received

Magnasoft 800L silicone fluid needs to be emulsified prior to applying it in leather wet-end processes. An example formulation to emulsify Magnasoft 800L silicone fluid is as follows:

Material	% wt.	Note
Magnasoft 800L silicone fluid	12.0	Carboxyl-terminated silicone fluid
Sodium-N-Lauroyl Sarcosinate (30% actives)	12.0	CAS#: 137-16-6 emulsifier to waterproof and minimize impact on leather
IPA	0.5	Isopropanol solvent
Water	75.5	-

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.

Emulsifying Procedure

1. Charge sodium-N-lauroyl sarcosinate in 40~50 °C water, and stir until homogenous
2. Slowly add Magnasoft 800L silicone fluid in the solution of sodium-N-lauroyl sarcosinate while stirring
3. Slowly add IPA while maintaining stirring
4. Adjust pH of the final emulsion to 6 or 7 with diethyl amine as received

Adjusting the pH to bring the pH of the final emulsion to 6 or 7 is subject to the water penetration pattern that is typically shown as following:

Emulsion pH	Water penetration on leather surface	Water penetration at leather inside
pH 6	Slow	Fast
pH 7	Fast	Slow

If non-neutralized sarcosinate is used, it is recommended to neutralize the sarcosinate to a pH of 6 with diethyl amine prior to using for Magnasoft 800L emulsification.

Example to apply Magnasoft 800L silicone fluid in leather wet-end processes

It is typically recommended to dose 8~12% of Magnasoft 800L silicone fluid, co-applied with 0.2~0.4% acrylate resin dispersion to help the silicone actives uniformly disperse in leather. The waterproofing is maximized if the leather treated with Magnasoft 800L silicone fluid is aged at an ambient temperature for 48 hours.

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

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