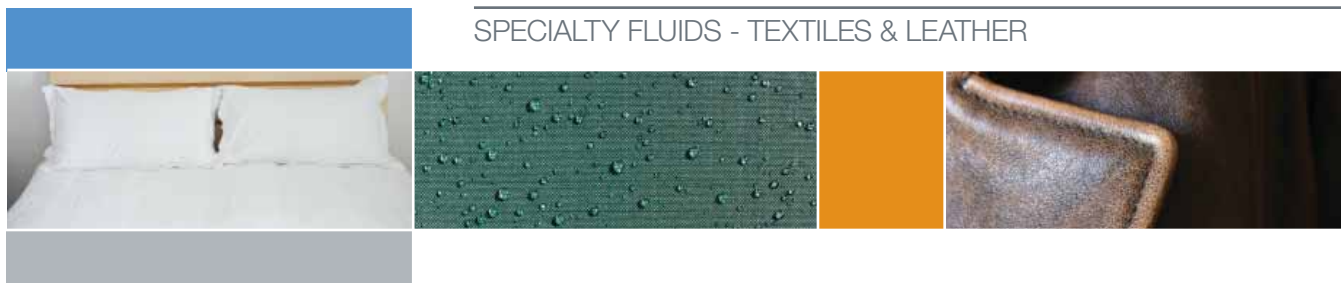


MAGNASOFT* MT80 textile softener

SPECIALTY FLUIDS - TEXTILES & LEATHER



Magnasoft MT80 textile softener is a linear, polydimethylsiloxane-amino polyalkyleneoxide copolymer that can provide a soft, silky, full hand to fabrics treated with fluorocarbon soil release additives, while incurring little or no interference with the soil release properties. The softness provided by Magnasoft MT80 softener is durable for numerous detergent washes. Magnasoft MT80 textile softener can help impart superior softness and very low yellowing compared to conventional amino-silicones when applied to a wide variety of fabrics.

In addition, fabrics treated with Magnasoft MT80 textile softener are not hydrophobic. It typically imparts a slow-wetting character to fabrics.

Key Features and Typical Benefits

Magnasoft MT80 textile softener can provide performance benefits in both the textile finishing process and the treated fabric.

- Does not typically interfere with soil-release properties of fabrics treated with fluorocarbon soil-release agents
- Can be coapplied with fluorocarbon soil-release agents
- Can provide a high level of softness for most types of fabrics
- Is easily diluted with water or alcohol
- Provides dilutions that are extremely shear stable
- Provides water dilutions that have excellent compatibility with finishing baths
- Very low yellowing
- May be used in most normal application methods such as pad bath, exhaustion and spray

Potential Applications

Magnasoft MT80 textile softener may be considered for use in textile finishing as a premium softener for most types of fabrics, including cotton, synthetics and cotton/synthetic blends, and those that are also treated with fluorocarbon soil-release agents. It can be a very effective softener for use in wrinkle-free garments that are treated with durable press resin and a fluorocarbon soil-release agent. It is also an excellent softener to consider for knit and woven fabrics, including those that are durable press resin-treated. Since Magnasoft MT80 textile softener does not require emulsification, its water dilutions have excellent shear stability. Therefore, it is an excellent softener to consider for applications where normal, emulsified softeners do not show adequate shear stability (such as in EVAC systems).

Typical Physical Properties

Appearance	Pale yellow
Viscosity at 25 °C, cPs	2,500
Specific Gravity, 25/25 °C	1.02
Amine Content, %	0.13
Active Copolymer Concentration, %	30
Solvent	Dipropylene glycol
Preferred Diluent	Water

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

General Instructions for Use

Magnasoft MT80 textile softener is normally applied as a water dilution that is blended into the treatment bath formulation to provide the desired silicone add-on.

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Performance Data

Soil Release and Softness

The data presented below demonstrate the superior soil release and softness that can be provided by Magnasoft MT80 textile softener to fluorocarbon and durable press resin treated 100% cotton twill. Performance was compared to that of:

- LE-460, a conventional dimethyl silicone emulsion
- Magnasoft Plus softener, a high-performance amino-silicone
- Magnasoft HSSD hydrophilic softener, a silicone-amino-polyalkyleneoxide terpolymer
- 80/20 blend of Magnasoft HSSD and Magnasoft Plus softeners

All treatments also contained 10% of a 44% solids DMDHEU resin catalyzed with 1.5% catalyst. To improve pad bath compatibility, 0.5% of a secondary alcohol ethoxylate surfactant with an HLB of 15 was used.

The data in Table 1 indicate that Magnasoft MT80 textile softener provided superior softness, along with very little loss in soil-release properties. It also provided durable softness to the fabric, since the treated fabric retained most of its initial softness, even after five washings. Soil-release performance with Magnasoft MT80 textile softener was only slightly reduced over that obtained with fluorocarbon alone.

Table 1: Soil Release Rating, Softness and Silicone Durability on 100% Cotton Twill Fabric Treated with 1.0% FC-248, 1.0% Silicone, BOWF

Treatments (Silicone/FC-248/Resin)	Soil Release Rating ⁽¹⁾ (Dirty Motor Oil)				Softness ⁽²⁾		
	Initial	1 Wash	Re-Stain & 5 Washes	1 Wash	Initial	1 Wash	5 Washes
Magnasoft MT80 textile softener	1	3	3.5	3.5	7	7	6
Magnasoft HSSD textile softener	1	3	3.5	3	5	3	3
Magnasoft Plus textile softener	1	1.5	3	2	8	6	5
Magnasoft HSSD textile softener/ Magnasoft Plus textile softener, 4/1 Blend	1	2	3.3	3	6	4	3
LE-460	1	2	3	3	4	3	3
FC-248/resin only	1	3.5	4	4	2	2	2

(1) Soil release was determined by AATCC Test Method 130-1990, using the Stain Replic Scale: 1-5. Washed with 120 °F water.

(2) Softness was rated by a Hand Panel of five people. Softness Rating Scale: 8 = Very soft, 1 = Harsh.

Note: Test data. Actual results may vary.

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