

## Magnasoft™ TLC Hydrophilic Softener

### Magnasoft\* TLC

#### Description

Magnasoft TLC softener is a watersoluble organomodified silicone fluid designed to impart softness and hydrophilicity to a variety of woven and nonwoven fabrics.

Substrates to which Magnasoft TLC softener has been successfully applied are 100% synthetics, such as polyester, polypropylene, and polyethylene, as well as a variety of polyester/cotton blends.

Magnasoft TLC softener is nonionic in nature and, therefore, compatible with a broad range of other formulating components with which it might be used. In addition, Magnasoft TLC softener increases the tear strength and flex abrasion properties of certain fabrics.

Magnasoft TLC softener markedly improves the hydrophilicity of hydrophobic substrates and does not interfere with the wettability of hydrophilic substrates. With only limited durability, Magnasoft TLC softener is suggested primarily for single-use or limited-life products.

#### Key Features and Benefits

- Water-soluble
- Excellent hydrophilicity
- Imparts good softening properties
- Improves fabric strength
- Shear-stable
- Excellent compatibility with other formulating components

- Economical

### Typical Physical Properties

Appearance	Clear Liquid
Percent Actives	100
Ionic Nature	Nonionic
Nominal Viscosity, cSt	425
Cloud Point, 1% solution, °C (°F)	48 (118)
Solvents	Water, Alcohol

### Processing Recommendations

#### 100% Polyester Nonwoven [(1.3 oz/yd<sup>2</sup>)(44 g/m<sup>2</sup>)]

Pad Bath Formulation	Weight Percent	
	Magnasoft TLC softener	Water
Magnasoft TLC Softener	0.65	—
Water, distilled	99.35	100.0
Solids Pick-up, %	0.9	0.0
Dry/Cure Cycle at 340°F (170°C), min	1.5	1.5
Performance		
Softness <sup>(1)</sup>	1.0	5.0
Wettability <sup>(2)</sup> , sec	3.0	>300
Elmendorf Tear <sup>(3)</sup> , g	1020	635

(1) 1 = Softest, 5 = Harshesht

(2) AATCC 79-1980

(3) ASTM D1424-83

#### Polyester/Cotton = 65/35 Woven Broadcloth [(3.0 oz/yd<sup>2</sup>) (102 g/m<sup>2</sup>)]

Pad Bath Formulation	Weight Percent	
	Magnasoft TLC softener	Water
Dp Resin (38%)	15.00	15.00
Resin Catalyst (64%)	2.25	2.25
Magnasoft TLC Softener	1.18	—
Water, distilled	81.57	82.75
Silicone Solids Pick-up, %	1.0	0.0
Dry/Cure Cycle at 340°F (170°C), min	1.5	1.5
Performance		
Softness <sup>(1)</sup>	1.0	5.0
Wettability <sup>(2)</sup> , sec	5.0	6.0

(1) 1 = Softest, 5 = Harshesht

(2) AATCC 79-1980

### 100% Polypropylene Nonwoven [(0.7 oz/yd<sup>2</sup>) (24 g/m<sup>2</sup>)]

Pad Bath Formulation	Weight Percent	
	Magnasoft TLC softener	Water
Magnasoft TLC Softener	0.33	—
Water, distilled	99.67	100.0
Silicone Solids Pick-up, %	0.6	0.0
Dry/Cure Cycle at 245°F (118°C), min	1	1
Performance		
Softness <sup>(1)</sup>	1.0	5.0
Wettability <sup>(2)</sup> , sec	<1	>300

(1) 1 = Softest, 5 = Harshesht

(2) AATCC 79-1980

### 100% Fused Polyester Nonwoven [(0.5 oz/yd<sup>2</sup>) (17 g/m<sup>2</sup>)]

Pad Bath Formulation	Weight Percent	
	Magnasoft TLC softener	Water
Magnasoft TLC Softener	0.5	—
Water, distilled	99.5	100.0
Silicone Solids Pick-up, %	0.9	0.0
Dry/Cure Cycle at 340°F (170°C), min	1.5	1.5
Performance		
Softness <sup>(1)</sup>	1.0	5.0
Wettability <sup>(2)</sup> , sec	Immediate Strike Through	>300
Elmendorf Tear <sup>(3)</sup> , g	1710	1040

(1) 1 = Softest, 5 = Harshesht

(2) AATCC 79-1980

(3) ASTM D1424-83

### 100% Polyester Woven Fabric, Heat Set [(3.7 oz/yd<sup>2</sup>) (125 g/m<sup>2</sup>)]

Pad Bath Formulation	Weight Percent	
	Magnasoft TLC softener	Water
Magnasoft TLC Softener	1.18	—
Water, distilled	98.82	100.0
Silicone Solids Pick-up, %	1.0	0.0
Dry/Cure Cycle at 340°F (170°C), min	1.5	1.5
Performance		
Softness <sup>(1)</sup>	1.0	5.0
Wettability <sup>(2)</sup> , sec	5.0	>300
Elmendorf Tear <sup>(3)</sup> , g		
Warp	8000	6700
Fill	5000	4200

(1) 1 = Softest, 5 = Harshesht

(2) AATCC 7H9-1980

(3) ASTM D1424-83

### Kawabata Softness Evaluations



**Patent Status**

Standard copy to come

**Product Safety, Handling and Storage**

Standard copy to come

**Limitations**

Standard copy to come

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