

Magnasoft™ 68 Textile Softener

Magnasoft* 68 textile softener

Description

Magnasoft* 68 textile softener is a self cross-linkable silicone emulsion that can help impart exceptional surface smoothness to most types of cotton and synthetic fibers. It contains a modified reactive functional group that is cross-linkable to form a special two dimensional elastomeric film on treated fabrics. Upon drying or curing, it can deliver superior smoothness and elastomeric soft hand-feel to knitted or woven fabrics, as compared with conventional amino modified silicones softeners.

Magnasoft 68 textile softener contains no alkyl phenol based chemicals (APEO free).

Key Features and Typical Benefits

- Self cross-linkable and elastic film forming properties after drying or curing.
- No catalyst is needed for cross-linking.
- Can help impart outstanding smooth & slick softness to various types of fabric.
- Can help improve fabric elasticity and resiliency.
- Can help reduce wrinkles on fabrics.
- Can help improve the tear strength of fabrics.
- Stable in the pH range between 4-10.
- Good shear stability of the emulsion.
- Contains no alkyl phenol based chemicals (APEO free).
- Compatibility with most finishing additives.
- Can be applied by exhaustion or padding continuous process.
- Easy-to-handle, water-dispersible emulsion.

- May be economical to use.

Potential Applications

The diluted Magnasoft 68 textile softener microemulsion can be applied by most padding or exhaustion finishing processes and may also be considered for the garment washing process.

- Cotton or cotton / PE blended woven goods
- Mercerized cotton goods
- Wool / wool blended knits and worsted wool woven
- Polyester fiber and thread lubricants
- Softener in wrinkle free finish

Typical Physical Properties

| Property | Value |
|-------------------------------|--------------------|
| Appearance | Milky White liquid |
| Solid content (%) | 31 |
| Viscosity, 25°C, #3/6, cps | < 50 |
| Specific gravity, 25°C (77°F) | 1.0 |
| pH (25°C) | 8 |
| Ionic character | Cationic |
| Suitable dilutant | Water |

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting Momentive sales office.

General Instructions for Use

Magnasoft 68 textile softener is a ready-to-use, water dispersible emulsion and can be applied as received. However, it is recommended to pre-dilute it with cold water before adding to the textile-finishing bath.

The optimum dosage depends on the required softness, type of fabric and finishing conditions. The following application conditions are typical starting points :

- Pad-dry-cure continuous process

| | | |
|-------------|---|--------------------------|
| Dosage | : | 20 ~ 50 g/L |
| pH | : | 6.0 ~ 8.0 |
| Temperature | : | ambient |
| Pick-up | : | 65 ~ 100% |
| Drying | : | 100 ~ 130°C x 1 ~ 3 min. |

- Exhaustion process

| | | |
|--------------|---|--|
| Dosage | : | 2.0 ~ 5.0% of the weight of the fabric |
| Liquor ratio | : | $\frac{1}{10}$ ~ $\frac{1}{20}$ |
| pH | : | 6.0 ~ 8.0 |
| Temperature | : | 20 ~ 40°C |
| Time | : | 15 ~ 30 minutes |

Drying : 100 ~ 120°C

- Garment Washing Process

Dosage as received : 2.0 ~ 5.0 % of the weight of the garment

Conditions : Same as exhaustion process

Percautions

[1] Dilute with cold or warm water

Magnasoft 68 textile softener is generally stable in hard water. However, if the water supply has a hardness of 200ppm or higher, softened water or boiler condensate is recommended as a diluent.

[2] Compatibility

The Magnasoft 68 textile softener may not be compatible with certain materials, such as anionics, lower alcohols, salts, etc., which may break the silicone emulsion. It is recommended that any mixture of reactive emulsions with other materials be thoroughly checked before it is put into factory production.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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For literature and technical assistance, visit our website at: www.momentive.com

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