



# StarSil™ HAS 25

## Hydrophilic Silicone Softener

### Product Description

StarSil™ HAS 25 is a non-ionic, organo silicone softener, which when emulsified will develop a smooth hydrophilic finish on cotton, cotton/polyester or polyester fabrics. StarSil™ HAS 25 is particularly applicable to fabric which will be compressively shrunk such as shirtings, especially pin point oxford. StarSil™ HAS 25 is exceptionally stable and is compatible with all products typically used in textile finishing. StarSil™ HAS 25 can also be used to soften terry towel material.

### Special Properties

- Hydrophilic functionality—very appealing hand
- Stable emulsion—compatible with textile finishing chemicals

### Typical Physical Properties\*

Appearance.....light yellow  
Viscosity.....<5,000 cps  
% Volatiles.....15%  
Odor.....strong vinegar

*\* These items are provided as general information only. They are approximate values and are not considered part of the product specifications.*

### Application

Emulsions of StarSil™ HAS 25 may be added directly to the finishing bath. They may be applied as a pure finish or may be co-applied with resins or softeners. Typical application level is 1–3% owb. Try to avoid over drying when applying to terry towel.

### Storage

StarSil™ HAS 25 may be stored for six months at 60–90°F (16–32°C).

### Emulsification Procedure

1.	Water 1	54%
2.	DA 6	12.5%
3.	PEG 400	4%
4.	Starsil™ HAS 25	25%
5.	Water 2	4.4%
6.	Preservative	0.1%

Charge 1, 2 and 3. Mix until clear and begin heating to 55 C. Charge 4. Mix until clear. Charge water 2 and preservative.

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