



TECHNICAL DATA SHEET

SILICO SOFT SHW

DESCRIPTION

SILICO SOFT SHW is a quaternary ammonium salt polyether modified silicone emulsion. It can deliver voluminous and soft hand feels to all kinds of textile fabric Silico soft fast and consistent hydrophilicity, especially for terry towel and natural fiber, which cannot be obtained with traditional silicone or fatty acid based softeners. It is very stable in ordinary textile finish process without causing oil-spots on fabric.

SPECIAL FEATURES

- ❖ Provides fast and consistent water absorption on various fabric, especially suitable for terry towel and cotton
- ❖ Provides soft, bulky hand feel, improve elasticity and elastic recovery.
- ❖ Excellent chemical stability, suitable for wide PH range(PH1.0-11.0)
- ❖ Less fabric yellowing, suitable for white or light color fabric
- ❖ Improve sew ability
- ❖ High resistance to electrolyte, suitable for resin finishing

TECHNICAL INFORMATIONS

<i>Appearance</i>	<i>Light yellowish transparent liquid</i>
<i>Solid content, %</i>	<i>57.0-59.0</i>
<i>Ionic</i>	<i>Cationic</i>
<i>pH(1% aqueous solution)</i>	<i>4.0~6.0</i>
<i>Diluent</i>	<i>Water</i>

APPLICATIONS

SILICO SOFT SHW can be used for all types of fabrics with good property, especially for terry towel and cotton fabric, which cannot be obtained with traditional silicone or fatty acid based softeners. SILICO SOFT SHW can be diluted with water into any proportion; no additional emulsifying process is required.

DOSAGE

	Padding process	Exhaustion process
Dosage	10~20g/l for light fabric	1.0 ~ 2.0% (o. w.f.) on light fabric;
Liquor ratio	--	1/10 ~ 1/20
pH	5.0 ~ 7.0	
Temp.	Ambient temperature	30-50c
Time	--	15 ~ 20 min
Dry	120 ~ 170 °C for 1~3 min	100 ~ 170 °C for 1~3min



Organo Chemicals (Pvt.) Ltd

PERFORMANCE COMPARISON

The products are subjected to the form of micro-emulsion, following the proportion of oil around 20% in the emulsion. The samples are applied in concentrations of 2% by exhaust on cotton and 1% on polyester

Fabric	Softness	Wettability(s)	Color change
Knitted cotton	8.5	1.0	0.22
Woven cotton	8.2	11.4	0.30
Towel	9.5	0.5	0.32
Polyester	8.0	11.8	0.43

SALT RESISTANT STABILITY

To realize the salt resistant stability test we use 10g/l Na₂SO₄ and 20g/l SILICO SOFTSHW in 200ml bath after 3 hours of heating SHW is semitransparent

ALKALI RESISTANT STABILITY

To realize the salt resistant stability test we use 1.2g/l NaOH (pH=12) and 20g/l SILICO SOFT SHW in 200ml bath. Result shows that that after 3 hours of heating SHW is still transparent

SHEAR RESISTANT STABILITY

To realize the shear resistant stability test we use 0.5g/l Na₂CO₃, 1g/l Na₂SO₄, 0.1g/reactive dye and 50g/l SHW in 200ml bath. The stirring speed is 2000r/mainland the Temperature is 50°C. Results No silicone oil droplets or silicone residue are Observed

PACKING

SILICO SOFT SHW is available in 50kg, 200kg plastic drums or other packing on request.

STORAGE

Transport as non-hazardous chemicals. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

SHELF LIFE

Original characteristics remain intact for 1 year, if kept in recommended storage.

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