



TECHNICAL DATA SHEET

SILICO SOFT-8062A

DESCRIPTION

SILICO SOFT-8062A is modified silicone copolymer, with epoxide, amino and Polyether functional groups and other traditional chemical entities. SILICO SOFT-8062A is an efficient hydrophilic silicone softener for all kinds of fabrics. SILICO SOFT-8062A delivers good air permeability, hydrophilicity, and anti-static properties; especially it imparts anti-pilling and anti-fuzzing properties to synthetic fibers. SILICO SOFT-8062A also has good re-dyeing ability, after treatment, the fabric can be dyed directly without getting rid of silicone oil.

SPECIAL FEATURES

- ❖ Superior hydrophilicity
- ❖ No yellowing change
- ❖ Self emulsify
- ❖ Easy to use
- ❖ Good re-dyeing ability
- ❖ High active content
- ❖ Good compatibility

TECHNICAL INFORMATIONS

Appearance	Slight yellowish translucent viscous emulsion
Solid content, %	97-99%
Ionic	nonionic
pH(1% aqueous solution)	6.0~8.0
Diluent	Water

APPLICATIONS

As a textile auxiliary agent, SILICO SOFT-8062A can be used for a wide range of fabrics, such as 100%cotton, polyester/cotton blends, wool, rayon and acrylic woven's, nonwovens and knits. SILICO SOFT-8062A should be emulsified before applying in textile finish process. It can be self-emulsified, so without emulsifier, the normal equipment will meet the requirement. Also, the formulations based on SILICO SOFT-8062A can be easily diluted in any proportion of cold water. The usual diluted ratio is 1:5-8.

DOSAGE

	Padding process	Exhaustion process
Dosage	15 ~ 50g/l	2~ 6%(o.w.f.)
Liquor ratio	--	1/10 ~ 1/20
pH	5.0 ~ 7.0	5.0 ~ 7.0
Temp.	Ambient temperature	Ambient temperature
Time	--	15 ~ 30 min
Dry	160 °C	160 °C

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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 25 grams per liter on cotton and 10 grams per liter on polyester.

Fabric	Wettability(s)				Color change
	Half an hour	2 hours	1 day	1 week	
Knitted cotton	1.5	1.7	1.8	2.6	0.32
Woven cotton	3.1	3.6	4.3	4.4	0.59
polyester	36.5				0.48

SALT RESISTANT STABILITY

To realize the salt resistant stability test we use 10g/l Na₂SO₄ and 20g/l SILICO SOFT-8062A in 200ml bath.

25°C	40°C	50°C	60°C	70°C	80°C
Colorless & stable	Colorless & stable	Colorless & stable	Colorless & stable	Colorless & stable	Colorless & stable

ALKALI RESISTANT STABILITY

To realize the salt resistant stability test we use 1.2g/l NaOH (pH=12) and 20g/l SILICO SOFT-8062A in 200ml bath.

25°C	40°C	50°C	60°C	70°C	80°C
Colorless & stable	Colorless & stable	Colorless & stable	Colorless & stable	Colorless & stable	Colorless & stable

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 SILICO SOFT-8062A in 200ml bath. The stirring speed is 2000r/min, and the temperature is 50°C. Result no silicone

oil droplets or silicone residue are observed

ION COMPATIBILITY

To realize the ion compatibility test we use 2g/l fluorescent whitening agent and 50g/ SILICO SOFT-8062A in 200ml bath. Result shows that this product is compatible with fluorescent whitening agent

PACKING

SILICO SOFT8062A 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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