

POWSIL™-59255

Silicone Softener

INTRODUCTION

POWSIL™ 59255 is a novel polyether silicone terpolymer that provides consistent hydrophilicity to all types of fiber or fabric than other silicone softeners. It imparts soft & slick hand feel to various fabric as well. It is very stable in ordinary textile finish process without causing oil-spots on fabric.

BENEFITS

- Provides instant & consistent water absorption on various fibers & fabric;
- Imparts soft & smooth hand feel;
- No extra emulsifiers included but self-dispersed in water and alcohols;
- Can be diluted with water to any grade without additional emulsifiers;
- Very stable & non-oil-spots if used in ordinary textile finish process;
- Excellent affinity with all types of textile;
- Excellent fiber elasticity and shape recovery;
- Durable softness to laundering if catalyst is used;
- Doesn't interfere with the soil release properties of fabrics treated with fluorocarbon;
- Redyeable & over dyeable.

TYPICAL PHYSICAL PROPERTIES

Appearance	Light yellowish & transparent
Physical Form	Liquid state
Active Contents (wt%)	Around 40%
Viscosity (25°C, cSt)	Max.500
Flash Point (°C, open)	Min.100
Cloud Point(°C, 1%aq)	Around 61
Diluents	Water, alcohol
pH (1% aq)	6.0-8.0
Ionic	Nonionic

APPLICATIONS

POWSIL™ 59255 can be directly used as received or can be pre-diluted with water only. Followings are guide formulations for different silicone active content emulsions that can be commonly applied in textile finish process.

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Potential Applications

- 1): Fast hydrophilic property to all kind of fabrics or fibers, or some nonwoven;
- 2): Hydrophilic enhancer to be co-applied with other softeners, such as fatty acid flakes, amino-silicone;
- 3): Co-emulsifiers

☐ Pad-dry-cure process

Dosage:	20~30g/l for light fabric or 30-50g/l for heavy fabric
pH:	5.0 ~ 7.0
Temperature:	Ambient
Dry/Cure:	120 ~ 170°C for 1~3 min

☐ Exhaustion process

Dosage:	2.0 ~ 3.0% (o. w.f.) on light fabric & 3.0-5.0% on heavy fabric
Liquor ratio:	1/10 ~ 1/20
pH:	5.0 ~ 7.0
Temperature:	Ambient
Time:	10 ~ 30 min
Spinning & Drying:	100 ~ 170 °C for 1~3 min

☐ Garment washing process

Dosage:	1.0 ~ 3.0% on the weight of garment
Temperature:	Ambient
Time:	30 ~ 60 min
Spinning & Drying:	100 ~ 130 °C for 3~5 min

PACKING AND STORAGE

To ensure that the product quality is maintained, the container should be tightly sealed when not in use. It should be stored at normal room temperature, preventing prolonged exposure to extreme heat and cold conditions, which may cause product separation. If the product is separated, stir the contents. If the product is frozen, thaw it at warm condition and stir after thawed.

NOTES

All information in the leaflet is based on our present knowledge and experience. We

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reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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Please send all technical questions concerning quality and product safety to: support@SiSiB.com.