

POWSIL™-59160

Self-dispersed Silicone Softener

INTRODUCTION

POWSIL-59160 is new generation textile softener based on copolymer technology, a revolutionary silicone molecule to deliver a natural silky handle. It is self-dispersed silicone fluid and developed to solve issues such as thermal migration, oil-spots, oiling/greasy feel and color change, particularly on polyester or its blends that traditional amino-silicone tends to encounter.

BENEFITS

- Linear block copolymer architecture;
- Self-dispersion without containing any emulsifiers; Readily diluted to any degree without additional emulsifiers;
- Effective at 2-5g/l in the bath. It may provide a high level of natural softness to synthetics and their blends with natural fibers;
- Polymer with High MW that delivers properties similar to those Molecular Weight of reactive elastomeric finishes, such as durability and resistance;
- Hindered amine functionality. Hence little or no yellowing;
- Without emulsifiers hence no colour migration problems;
- Excellent stability under most finishing conditions, including jet/overflow;
- May be co-applied with crease (durable press) resist resins, their catalysts and optionally OBA's;
- Excellent fiber elasticity and shape recovery;
- Re-dyeable and over dyeable.

TYPICAL PHYSICAL PROPERTIES

Property	Value
Physical Form	Liquid
Appearance	Colorless to yellowish transparent viscous liquid
pH (25°C)	4.0~6.0
Viscosity (25°C, cps)	500~2500
Flash Point (°C)	>100
Density (25°C)	0.93~1.03
Ionic	Cationic /nonionic

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APPLICATION

POWSIL-59160 is readily diluted with water, no additional emulsifying process is required. It can be directly applied in textile finish process.

POWSIL-59160 can be used as received or pre-diluted with water before applying. The desirable usages are dependent on the required softness of the fabric and yarn after dyeing and rinsing.

1. Pad-dry-cure process

Dosage:	2-10 g/L for light fabric or 10-20 g/L for heavy fabric
pH:	5.0-7.0
Temp.:	Ambient temperature
Dry/Cure:	120-170°C for 1-3 min

2. Exhaustion process

Dosage:	0.2-1.0% (o.w.f) on light fabric & 1.0-2.0% on heavy fabric
Liquor ratio:	1/10-1/20
pH:	5.0-7.0
Temp.:	Ambient temperature
Time:	10-30 min
Drying:	100-170°C for 1-3 min

3. Garment washing process

Dosage:	1.0-3.0% on the weight of garment
Temp.:	Ambient temperature
Duratio:	30-60 min
Drying:	100-130°C for 3-5 min

Stripping :

POWSIL-59160 can be stripped off fabric. The stripping formulation is as follows:

NaOH :	5 g/L
LABS(30%) :	2-5%

Add water and NaOH onto fabric tank and then heat to 100°C for 60 min. Then rinse fabric with acidic water and water.

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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. POWSIL-59160 tends to be sediment on bottom during storage period. If the product is separated, stir the contents to homogeneous. If the product is frozen, thaw it at warm condition and stir after thawed.

POWSIL-59160 is packaged in net weight 120Kg plastic drum.

NOTES

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

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability. We disclaim liability for any incidental or consequential damages.

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