

POWSIL™-99261 Fast Hydrophilic Silicone Softener

INTRODUCTION

POWSIL™ 99261 is a nonionic polyether-modified silicone terpolymer with high active content, developed for hydrophilic textile finishing. It provides rapid and consistent water absorption on a wide range of fibers, fabrics and selected nonwovens, while imparting a soft, smooth and slick hand.

POWSIL™ 99261 is readily dispersible in water and can be diluted to the desired concentration without additional emulsifiers. It offers good stability in conventional textile finishing processes and minimizes the risk of oil spots on treated fabrics.

FEATURES & BENEFITS

- Provides rapid and consistent hydrophilicity
- Imparts a soft, smooth and slick hand
- High active content and readily dispersible in water
- Can be diluted with water without additional emulsifiers
- Good stability in conventional textile finishing processes
- Low risk of oil spots on treated fabrics
- Low yellowing compared with epoxy-modified silicone softeners
- Good affinity for a wide range of textile fibers
- Improves fiber elasticity and shape recovery
- Suitable for re-dyeing and over-dyeing
- Improved wash durability when used with a suitable catalyst
- Compatible with fluorocarbon finishes with minimal impact on soil-release performance
- D4, D5, D6 each < 1000ppm.

PHYSICAL PROPERTIES

Appearance	Liquid
Color	Clear to light yellow
Active content (wt%)	Min. 95
Density (25°C) g/cm ³	1.049
pH (25°C) 1% aqueous solution	6.0-8.0
Solubility in water	Soluble
Ionicity	Nonionic

Note: These values are typical and are not intended for use as specifications

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APPLICATIONS

POWSIL™ 99261 is suitable for the hydrophilic soft finishing of a wide range of textile fibers and fabrics, as well as selected nonwoven materials.

It may be used alone or as a hydrophilicity enhancer in combination with other softeners, such as fatty acid softener flakes and amino silicone softeners. It may also be used as a co-emulsifier in textile auxiliary formulations.

USAGE GUIDELINES

POWSIL™ 99261 may be used as supplied or pre-diluted with water before application. The optimum dosage and processing conditions should be determined by preliminary trials according to the substrate, equipment and required finishing effect.

Preparation of a 30 wt% Aqueous Dilution

POWSIL™ 99261	30.0 wt%
Water	70.0 wt%
Preservative	As required

Procedure

1. Charge the required amount of water into a clean mixing vessel and begin stirring.
2. Slowly add POWSIL™ 99261 under continuous agitation.
3. Continue stirring until a clear and uniform dilution is obtained.
4. Filter before packaging if necessary.

Recommended Application Processes

Padding Process

POWSIL™ 99261	20-50 g/L
Bath pH	5.0-7.0
Drying	120-170°C for 1-3 minutes

Exhaustion Process

POWSIL™ 99261	2.0-5.0% o.w.f.
Bath pH	5.0-7.0

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Liquor ratio	1:10-1:20
Treatment	Room temperature, 10-30 min
Drying	100-170°C for 1-3 minutes

Garment-Washing Process

POWSIL™ 99261	1.0-3.0% o.w.f.
Treatment time	30-60 minutes
Drying	Conventional tumble drying

Stripping

POWSIL™ 99261 may be stripped from treated fabrics when required. The following formulation may be used as a starting point:

Sodium hydroxide	5 g/L
LABS, 30%	2.0-5.0%*

Prepare the treatment bath with water, sodium hydroxide and LABS. Treat the fabric at 100°C for approximately 60 minutes, then rinse with acidified water followed by clean water.

The stripping conditions should be evaluated on the specific fabric before bulk processing.

PACKING

POWSIL™-99261 is available in 50Kg or 120Kg Plastic drum.

STORAGE

Store at room temperature in a tightly closed container. Protect from direct sunlight and prolonged exposure to extreme heat or cold.

POWSIL™ 99261 has a shelf life of 12 months from the date of manufacture.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

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NOTE

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.

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