

# POWSIL™-62111

## Anti-Bacterial Softener

### INTRODUCTION

POWSIL™-62111 is a hydrophilic, silicone-based anti-bacterial softener that imparts a soft, silky feel to a wide range of fabrics while providing antibacterial properties.

### BENEFITS

- Imparts efficient anti-bacteria property like staphylococcus, Klebsiella pneumonia, Escherichia coli etc.
- Imparts natural soft, silky and bulky hand feeling
- Stable in normal textile finish process
- Durable as its molecules deeply penetrate into fibers
- Excellent affinity to all types of textile
- Good hydrophilicity
- Less fabric yellowing
- Re-dyeable and over dyeable
- Outstandingly exhaustible to natural fibers

### TYPICAL PHYSICAL PROPERTIES

Appearance	Transparent and bluish liquid
Solid content (wt%)	40-42
D4 (Octamethylcyclotetrasiloxane)	< 1000 ppm
D5 (Decamethylcyclopentasiloxane)	< 1000 ppm
D6 (Dodecamethylcyclohexasiloxane)	< 1000 ppm
Viscosity (25°C, cP)	<1500
pH (25°C)	4.0-6.0
Flash Point (°C)	>90
Diluents	Water
Ionic	Cationic

### APPLICATIONS

POWSIL™-62111 can be used as received or pre-diluted with water before applying.

It is recommended to conduct a preliminary test to determine the optimal dosage.

1. Pad-dry-cure process

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Dosage	10-20g/l for light fabric or 20-50g/l for heavy
pH	5.0-7.0
Temperature	Ambient temperature
Dry/Cure	120-170°C for 1-3 min

### 2. Exhaustion process

Dosage	1.0~ 2.0% o.w.f. for light fabric or 2.0~5.0% for heavy fabric
Liquor ratio	1/10-1/20
pH	5.0-7.0
Temperature	Ambient temperature
Time	20-30 min
Drying	100-130°C for 3-5 min

### 3. Garment washing process

Dosage	1.5-5.0% o.w.f.
Duration	20-30 min
Drying	100-130°C for 3-5 min

#### Guides of Stripping:

POWSIL™-62111 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 then pure water.

## PACKING AND STORAGE

POWSIL™-62111 is packaged in net weight 120Kg Drum or 1000Kg IBC tote.

In the unopened original container POWISL™-62111 has a shelf life of one year in a dry and cool place.

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## 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.

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S-C POWSIL™-62111-TDS-3/3

Please send all technical questions concerning quality and product safety to: [silanes@SiSiB.com](mailto:silanes@SiSiB.com).