

# POWSIL™-99010 Amino Silicone Fluid

## INTRODUCTION

POWSIL™-99010 is a reactive aminoethyl-aminopropyl functional polydimethylsiloxane with a low content of cyclic siloxanes (D4, D5, D6) to meet EU regulatory requirements, suitable for textile softening, coatings, and other applications requiring compliance with environmental standards.

## FEATURES & BENEFITS

- Good affinity to various fabrics
- Imparts remarkable slickness & softness to various fabrics
- Low-yellowing to various fabrics
- Easily formulated into a clear micro-emulsion or white emulsion
- Enhances fabric resilience and imparts elastomeric properties
- Excellent cost-performance ratio
- D4, D5, D6 < 1000ppm

## PHYSICAL PROPERTIES

Appearance	Colorless to Yellowish liquid
Silicone Content (wt%)	~100
Solid Content (wt%)	Min.99.0
Viscosity (25°C, cP)	2000-4000
Density (25°C )	0.98
Refractive Index 25°C	1.4060
Amine Value	0.15-0.25 mmol/g
D4 (Octamethylcyclotetrasiloxane)	Max.1000 ppm
D5 (Decamethylcyclopentasiloxane)	Max.1000 ppm
D6 (Dodecamethylcyclohexasiloxane)	Max.1000 ppm

## APPLICATIONS

POWSIL™-99010 can be easily emulsified to a stable micro emulsion that imparts excellent softness and smoothness to various kinds of fabrics.

### How to prepare a clear micro-emulsion:

- Typical formulation & procedure:

Raw Materials	Wt%	Remarks
POWSIL™-99010	10.0	Silicone oil
TDA-3 / AEO-3	1.30	Emulsifier, HLB: 8.6
TDA-6 / AEO-6	2.50	Emulsifier, HLB: 11.4
TDA-15 / AEO-15	1.30	Emulsifier, HLB: 15.0

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Butylcarbitol	1.30	Co-solvent (diethylene glycol monobutyl ether)
Initial water	10.0	
Acetic acid	0.13	
Final water	Balance to 100%	
Biocide	0.02	

### Procedures:

1. Charge POWSIL™-99010, TDA-5, TDA-10 and Butyl Carbitol into a mixing tank, mix for 15-20 min;
2. Premix initial water and acetic acid to form an acidic solution. Charge the solution slowly into the soft grease. The charging should take about 30-60 minutes. After all of acidic solution has been added, continue to mix the content for 15 min to get a clear grease;
3. Start to add the final water under stirring;
4. Reduce the agitation speed after 3/4 of the final water has been charged. Continue to mix another 15 min after all the water has been charged;
5. Add biocide and mix for 10 minutes before drumming;
6. A clear emulsion will be obtained.

### PACKING

POWSIL™-99010 is supplied in 950Kg IBC Tote.

### STORAGE

In the unopened original container POWSIL™-99010 has a shelf life of one year in a dry and cool place.

### 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

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hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

### 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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