

POWSIL™-99050

Green Amino Silicone Fluid

INTRODUCTION

POWSIL-99050 is a reactive amino functional silicone fluid developed for textile softener use and has low D4 & D5 content. It can be easily emulsified to a stable micro emulsion that imparts excellent softness, smoothness and elastomeric touch to various kinds of fabrics.

BENEFITS

- Imparts good affinity to various fabrics;
- Imparts remarkable slickness & softness to various fabrics;
- Imparts elastomeric touch to various fabric;
- Enhances stretch recovery to various fabric;
- Easy to be made into a clear micro-emulsion or white emulsion;
- Imparts low-yellowing to various fabrics;
- Provides excellent cost-performance ratio.

TYPICAL PHYSICAL PROPERTIES

Appearance	Light yellowish translucent liquid
Silicone Content (wt%)	~100
D4 (Octamethylcyclotetrasiloxane)	<1,000 ppm
D5 (Decamethylcyclopentasiloxane)	<1,000 ppm
Viscosity (25°C, cps)	~1,000
Specific gravity (25 °C)	0.98
Refractive Index (n _D ²⁵)	1.406
Amine equivalent (ml 1N HCl/g)	~0.30

APPLICATION

How to prepare a clear micro-emulsion

- A typical formulation & procedure (recommended)

Raw Materials	Wt%	Remarks
POWSIL-99050	15.0	Silicone oil
Lutensol TO 7	5.66	Emulsifier from BASF
Lutensol TO8	2.10	Emulsifier from BASF

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Butylcarbitol	2.75	Co-solvent. Also called as diethylene glycol monobutyl ether
Initial water	10.0	
Acetic acid	0.25	
Final water	Balance to 100%	
Biocide	0.02	

Procedures:

1. Charge POWSIL-99050, T07 & TO8 and Butyl Carbitol into a mixing tank. And start to 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 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 $\frac{3}{4}$ 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 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 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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damages.

Please send all technical questions concerning quality and product safety to:
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