

POWSIL™-59040

Amino Silicone Fluid

INTRODUCTION

POWSIL-59040 is a low amino content and high molecular weight silicone fluid developed for textile softener use. It can be emulsified to a stable micro emulsion that imparts excellent softness and smoothness to various kinds of fabrics with lower yellowing.

BENEFITS

- Imparts good affinity to various fabrics;
- Imparts remarkable slickness & super softness to various fabrics;
- Easy to be made into a clear micro-emulsion or white emulsion;
- Imparts rebound or elastomeric property to various fabrics;
- Imparts low-yellowing to various fabrics;
- Provides excellent cost-performance ratio.

TYPICAL PHYSICAL PROPERTIES

Appearance	Light yellowish translucent liquid
Viscosity (25°C, cP)	3500
Specific gravity (25°C)	0.98
Refractive Index (25°C)	1.406
Nitrogen Content (%)	0.37
Silicone Content (%)	100
Nonvolatile Content (%)	Min.95.0

APPLICATION

How to prepare a clear micro-emulsion

- A typical formulation & procedure (recommended)

Raw Materials	Wt%	Remarks
POWSIL-59040	10.0	Silicone oil
TDA-3 (Tridecyl alcohol ethoxylate with 3 EO or AEO-3 (fatty alcohol ethoxylate with 3EO)	1.30	Emulsifier, HLB: 8.6

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TDA-6 (Tridecyl alcohol ethoxylate with 6 EO or AEO-6 (Fatty alcohol ethoxylate with 6EO)	2.50	Emulsifier, HLB: 11.4
TDA-15 (Tridecyl alcohol ethoxylate with 15 EO or AEO-15 (Fatty alcohol ethoxylate with 15EO)	1.30	Emulsifier, HLB: 15.0
Butylcarbitol	1.30	Co-solvent. also called as diethylene glycol monobutyl ether)
Initial water	10.0	
Acetic acid	0.13	
Final water	Balance to 100%	
Biocide	0.02	

Procedures:

1. Charge POWSIL-59040, TDA-5 or TDA-10 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 30-60 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 $\frac{3}{4}$ 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

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