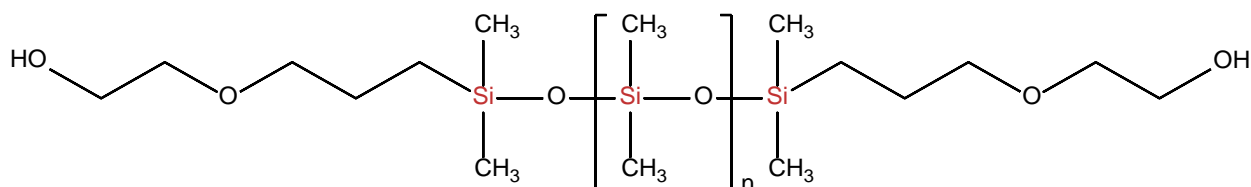


SiSiB® OF1301-M4000 Carbinol Terminated Silicone Fluid

CHEMICAL NAME Hydroxyalkyl-Terminated Polydimethylsiloxane (Carbinol-Terminated)

INTRODUCTION SiSiB® OF1301-M4000 is a linear di-functional silicone prepolymer with reactive hydroxyethoxypropyl terminal groups (also referred to as carbinol-terminated polydimethylsiloxane). With a molecular weight of approximately 4000, it is designed to chemically react with various polymers, introducing silicone segments into their structure to enhance both surface and bulk properties.

CHEMICAL STRUCTURE



CAS NUMBER 156327-07-0 / 222416-17-3

PHYSICAL PROPERTIES

Color and Appearance	Colorless or slight straw clear liquid
Molecular Weight	Approx. 4000
Density 25°C	0.95~0.98
Viscosity, 25°C, cSt	50-120
Hydroxy Value mgKOH/g	20-35
Active content	100%
Volatile 150°C, 1h	<3.0%

Typical product data values should not be used as specification.

APPLICATIONS

SiSiB® OF1301-M4000 is used to enhance polymer performance by improving:

- Surface slip, antiblocking, and mar resistance
- Flexibility (especially at low temperatures)
- Hydrophobicity and surface smoothness
- Abrasion and temperature resistance
- Anti-graffiti properties and processability

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It can be co-reacted into polymers such as coatings, resins, and plastics during synthesis. The hydroxyl end groups provide covalent integration into polymer backbones.

USAGE GUIDELINES

- **Anti-graffiti effect:** 1.0-5.0% by weight
- **Slip enhancement only:** as low as 0.1%
- **Typical co-reaction level:** 1.0-3.0% by weight

Preliminary screening at 0.1-3.0% is recommended to determine optimal performance for specific formulations.

PACKING

SiSiB[®] OF1301-M4000 fluid is supplied in 25Kg pail or 200Kg steel drum.

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.

STORAGE

In the original unopened packaging, SiSiB[®] OF1301-M4000 fluid has a shelf life of 18 months in a dry and cool place.

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.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.