

Technical Data Sheet



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Hydroxyl-terminated Fluorinesilicone Fluid LF-HF11

Description:

Chemical Name: Hydroxyl-terminated fluorosilicone fluid; Hydroxyl-terminated fluorosiloxane polymer; Copolymer of fluorosiloxane and siloxane;

Special Features:

This product is a hydroxyxohide polymer or a fluorosiloxane and a silicide cluster.

- Low Surface Energy: Trifluoropropyl groups ensure ultra-low surface tension and superior oil repellency (oleophobicity) over standard silicone oils;
- Chemical Shielding: Side-chain fluorination protects the siloxane backbone, providing elite resistance to fuels, solvents, and harsh reagents;
- Thermal Range: Maintains structural integrity and oxidative stability from -60° C to +250° C;
- High Dielectric Performance: Reliable electrical insulation with a high dielectric constant and low loss, even in humid or corrosive conditions.

Typical Technical Properties:

Test Item	Standard		
	LF-HF11-A	LF-HF11-B	LF-HF11-C
Appearance	Colorless to yellowish transparent liquid		
Viscosity (25°C, mPa.s)	130~180	1000~100000	100~100000
Volatile (%/ 200°C, 4h)	<5		
PH Value	7.0~9.0	6.0~7.5	6.0~7.5
Flash Point (°C)	>240		
Refractive Index (25°C)	1.379±0.01	1.384±0.01	1.386±0.01
Density (25°C, g/cm³)	1.25±0.03	1.17±0.03	1.09±0.03

* Products that can customize other viscosity according to customer requirements.

Applications:

1. Anti-Structuring Agent: Acts as a high-efficiency structural controller for Fluorosilicone Rubber (FSR), preventing "crepe hardening" during storage and improving processing consistency.
2. RTV Base Polymer & Diluent: Serves as the primary reactive polymer or viscosity modifier for condensation-cure, Room Temperature Vulcanizing (RTV) fluorosilicone systems.

Package & Storage:

Nanjing Silfluo New Material Co., Ltd.

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Web: www.silfluo.com Email: purchase@silfluo.com

The offered information of this doc is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are fully satisfactory for end use. Suggestions of use shall not be taken as inducements to infringe any patent. Please confirm with us prior to any problems.

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In 5kg, 25kg and 250kg drum

Keep in cool, dry and ventilated place. This product should be neutral to avoid contact with acidic and alkaline substances. Keep in unopened containers, shelf life is 12 months from the date of production. It is shipped as non-hazardous substance.

Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.