



## Silfluo LR-131

Organic Silicone Resin

### Description:

Silfluo LR-131 is a low-molecular-weight, solvent-free organic silicone resin synthesized through the mixed hydrolysis of alkoxy silanes with varying functionalities. It cures at room temperature and exhibits high reactivity, high hardness, non-adhesiveness under heated conditions, minimal gloss loss, and low smoke emission during thermal exposure.

### Typical Technical Properties

Silfluo Code:	LR-131
Appearance	Colorless to light yellow transparent liquid, opalescent light is allowed
Viscosity (25 °C) cp	20-200
Flash point (°C)	≥ 65
Alkoxy content, wt%	~30%

Note: These data are for reference only and should not be used as preparation specifications.

### Application:

1. High-Temperature Coatings: Utilized in the formulation of high-solid-content heat-resistant coatings for automotive, motorcycle, and aircraft components, including exhaust systems, mufflers, and engine parts.
2. Appliance Coatings: Applied in heat-resistant finishes for household appliances such as ovens, stoves, and grills.
3. Automotive Surface Protection: Serves as a hardening agent in the formulation of automotive ceramic coatings (glass coatings).

### Use Reference

1. Diluent Purity: Any diluents introduced must be free of water, acids, alkalis, amines, and other reactive compounds. Contamination will negatively impact adhesion, drying profiles, and overall film properties.
2. Safe Handling & Ventilation: During application and curing, flammable and volatile byproducts such as methanol are released. Proper explosion-proof ventilation must be maintained on-site. Strict precautions against fire hazards, static electricity accumulation, and ignition sources are mandatory. Operators must adhere to occupational safety protocols and utilize appropriate personal protective equipment (PPE).
3. Dilution Guidelines: The resin can be diluted using ketones, esters, toluene, and xylene.

### Package & Storage:

In 200kg drum.

# Technical Data Sheet



[www.silfluosilicone.com](http://www.silfluosilicone.com)

Keep in a cool, dry, and well-ventilated environment, avoiding direct sunlight, acids, and alkalis. The shelf life is 6 months from the date of manufacture when stored in original unopened containers (material can still be utilized if it passes quality inspection after the expiration date). Classified and transported as a non-hazardous substance.