Technical Data Sheet

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Silfluo LR-H168

High Temperature Silicone Resin

Description

Silfluo LR-H168 is polymerized from methyl and phenyl monomers, combined with specific silane monomers. It provides high-temperature resistance and ambient curing capabilities.

Typical Technical Properties:

Silfluo Code:	LR-H168
Appearance	Colorless to light yellow transparent liquid, opalescence is permitted
Solid content, %	80 ±1
Viscosity (25°C,cp)	≥ 2000
Curing Profile:	Surface dry in ≤ 2 hours at ambient temperature; fully cured in 2 hours at 180°C
Heat Resistance (Varnish mixed with leafing aluminum powder at a 4:1 ratio, exposed to 500±10°C for 3 hours):	No peeling, no cracking, no blistering

Application

1. Heat-Resistant Coatings: Formulated with pigments and functional materials for heat-resistant coatings applied to exhaust pipes, electrostatic precipitators, and stoves.
2. Resin Modification: Blended with organic resins (including alkyd, acrylic, polyester, and epoxy matrices) to formulate temperature-resistant 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: This product contains toluene and other highly flammable, volatile solvents. Proper explosion-proof ventilation must be maintained during processing. 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.

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 hazardous substance (flammable liquid).