



Silfluo LR-E169

Silicone Resin Emulsion

Description

Silfluo LR-E169 is a non-ionic methyl silicone resin emulsion supplied as a milky-white, solvent-free, water-dilutable liquid at 50% solid content. The absence of organic solvents gives LR-E169 a zero-VOC profile, distinguishing it from solvent-borne silicone resin grades in the Silfluo LR series. Heat resistance reaches up to 300°C for clear varnish formulations and up to 500°C for aluminum-pigmented or thermally pigmented coatings.

Typical Technical Properties:

Silfluo Code:	LR-E169
Appearance	Milky white liquid
Viscosity (Flow Cup No. 4, 25°C, S)	15 - 40
Solid content (150°C, 2h), %	50 ± 2

Application

1. Industrial Heat-Resistant Coatings

Used in thermal environments including boilers, heat source pipelines, electric heaters, and industrial furnaces.

2. Appliance Coatings

Applied in the formulation of heat-resistant finishes for ovens and related cooking equipment.

Use Reference

1. Formulation Procedure: Prepare a water-based, resin-free color paste before blending with the resin emulsion to ensure homogeneous pigment dispersion.

2. Compatibility Testing: When blending with organic resins or water-based polyamide curing agents, thorough compatibility testing is required before production use, particularly for clear varnish formulations.

3. Handling Strength: Ambient curing provides early handling strength sufficient for workpiece transportation after coating application.

4. Curing Profile for Maximum Performance: Forced thermal curing at 200–280°C for 15–60 minutes is recommended to achieve maximum heat resistance and physical-mechanical properties. Recommended profiles:

- 250°C for 30 minutes
- 280°C for 15 minutes

Package &Storage:

Nanjing Silfluo New Material Co., Ltd.

Web: www.silfluosilicone.com Email: inquiry@silfluo.com

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Technical Data Sheet



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Keep sealed in a cool, dry environment at temperatures strictly between 5° C and 36° C. 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).

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