



SiO-2164G Pure Silicone Resin

Resin Characteristics and Applications:

SiO-2164G exhibits excellent resistance to high and low temperatures, superior hydrophobic and moisture-proof properties, and good electrical insulation properties, including arc and corona resistance. It also has exceptional weather resistance and chemical stability. SiO-2164G is extensively used as a base resin for high-temperature coatings and specialty coatings, as well as H-class insulation coatings. It is widely used in high-temperature coatings with resistance ranging from 400 to 600°C.

Technical Specifications:

- Appearance: Pale yellow to yellow transparent liquid, may exhibit a slight opalescence, free from mechanical impurities
- Solid content: 50±1%
- Viscosity: 20~60 seconds (using Ford Cup No. 4)
- Acid value: ≤4 mg KOH/g
- Hardness of fully cured varnish film: ≥1H (Chinese pencil hardness)

Curing Methods:

This product requires high-temperature baking for curing, specifically at 200~220°C for one hour.

Precautions:

- The solvents used for diluting this product must be free of moisture, sulfur compounds, pyridine, and their impurities to avoid affecting the adhesion, drying, and other properties of the resin film.
- During processing, a significant amount of flammable, explosive, and toxic solvents like xylene will evaporate, so proper ventilation must be ensured, fire hazards strictly eliminated, and fire sources strictly isolated. Operators should observe safety protocols.
- All equipment and utensils used during processing must be clean, and contamination by dust, foreign substances, or water must be strictly prevented.
- Acids, bases, organic acid salts, and amine compounds accelerate curing and affect the thermal and electrical properties. Therefore, this product must be stored away from these substances.

Storage:



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The storage period for this product is tentatively set at one year. It should be stored in a ventilated, cool, and dry place, protected from direct sunlight and severe contamination by acids and bases. It should also be kept away from fire and heat sources.

Packaging:

This product is packaged in 200 kg large metal drums and 20 kg small metal drums.

***Note:** The product information provided is comprehensive and reliable. However, due to the diverse and variable conditions of product application, it is recommended to conduct preliminary tests and evaluations if using this product in any specific application.*