SiO-2167 Pure Silicone Resin

Resin Characteristics and Applications:

This product possesses excellent high and low-temperature resistance, hydrophobic and moisture-proof properties, as well as good electrical insulation and arc and corona resistance. It also has exceptional weatherability and chemical stability. The product can quickly surface-dry at room temperature and, once fully cured, offers high hardness (≥2H), high gloss, good fullness, and does not yellow at high temperatures. It is highly resistant to heat.

SiO-2167 is widely used as a base resin for high-temperature coatings (500~650℃), specialty coatings, and H-class insulating varnishes.

Specifications:

- Appearance: Light yellow to colorless transparent liquid, allowed to have a milky hue, no mechanical impurities
- Solid Content: 55±1%
- Viscosity: 20~50 seconds (coating cup #4)
- Acid Value: ≤4 mg KOH/g
- Hardness of fully cured varnish film: ≥2H (Chinese pencil hardness)

Curing Method:

This product can quickly achieve a tack-free state at room temperature and attain a certain hardness. It can be fully cured through high-temperature baking: 30 minutes at 250℃; 20 minutes at 270℃; 15 minutes at 280℃.

Precautions:

a. The diluent solvents used in this product must not contain moisture, sulfur compounds, pyridine, or their impurities, as these will affect the adhesion, dryness, and other properties of the resin film.

b. During processing, a large amount of flammable, explosive, and toxic solvents like xylene will volatilize. Ensure proper ventilation, fire prevention, and strict isolation from fire sources. Operators should observe appropriate labor protection measures.

c. Equipment and tools used during processing must be clean. Prevent dust, foreign objects, and water from mixing in.

d. Acids, bases, organic acid salts, and amine compounds can accelerate curing and affect heat and electrical performance. Thus, storage of this product should strictly isolate it from these substances.

Storage:

The storage period is tentatively set at six months. Store in a ventilated, cool, and dry place, away from direct sunlight. Prevent severe contamination by acids and bases, and isolate from fire and heat sources.

Packaging:

This product is packaged in 200 kg large white iron drums and 20 kg small white iron 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.*