

Powder Treatment Agent

SK-SAO-30

Product Overview:

● This product is a functional silicone oil with an asymmetric bifunctional structure. One end features a hydrophobic butyl group, while the other end contains a highly reactive trimethoxysilyl group, linked by flexible dimethylsiloxane segments. This unique design provides amphiphilic properties, interfacial activity, and controllable reactivity, making it ideal for surface treatment of inorganic fillers and plasticization of silicone rubber.

Technical Specifications:

| Test Item | Typical Data | Test Standard/Instrument |
|-------------------------|---|--------------------------------------|
| Appearance | Colorless to pale yellow transparent liquid | Visual inspection |
| Viscosity (mPa.s/25°C) | 25-35 | GB/T 10247-2008 |
| Refractive Index (25°C) | 1.425–1.445 | GB/T 6488 |
| Volatile content (%) | ≤ 2.0 | Dried at 150°C/3H (ambient pressure) |

Typical Applications:

- **Filler Treatment:** Forms hydrogen bonds with hydroxyl groups on inorganic fillers, enhancing dispersion in non-polar materials.
- **Surface Treatment & Coating:** Bonds to substrates like glass or metal, creating a hydrophobic layer via the butyl end.
- **Plasticizer:** Serves as a reactive plasticizer for condensation-cure silicone rubber.

Packaging & Storage:

- Packed in 5KG plastic pails or 20KG iron drums.
- Store at room temperature in a dry, dark place.
- Non-flammable; transport as non-hazardous goods.
- Best used within 12 months of production. Re-test if expired.

Safety & Environmental:

- Ensure proper protective equipment is worn when handling this product. Refer to the Material Safety Data Sheet (MSDS) for details.
- Dispose of packaging according to local solid waste regulations.

Notes:

- The information provided in this document is based on reliable data from our company. Product specifications and performance may change without prior notice.
- The information is derived from laboratory and practical experience and is for reference only. Since conditions and methods of use are beyond our control, application testing is recommended before use.
- Some performance parameters of the product can be adjusted according to customer requirements. If needed, please contact our technical department engineers.