

## Side-chain Epoxy-modified Silicone Oil

### SK-SOEP-2-100S



### Product Description:

● This product is a cycloaliphatic epoxy-modified silicone polymer, end-capped with methyl groups. Its backbone consists of alternating or block structures of dimethylsiloxane and cycloaliphatic epoxy groups. The introduced side-chain epoxy groups make it suitable for designing cationic UV-curable silicone products, widely used as intermediates for block polymers.

### Technical Specifications:

Parameter	Typical Value	Test Method/Instrument
Appearance	Colorless to pale yellow transparent liquid	Visual inspection
Viscosity (mPa.s/25℃)	100~10000	GB/T 10247-2008
Epoxy value (mol/100g)	0.50~0.01	GB/T 4612-2008
Volatile content (%)	≤ 1.0	150℃/1H

### Typical Applications:

- **Modification Intermediate:** Used as a block polymer raw material for ternary copolymer silicone oils in textile printing and dyeing.
- **Diluent:** Added to cationic UV-curable epoxy resin systems to enhance flexibility and improve heat resistance.
- **Resin Modification:** Suitable for modifying organic polymers.

### Packaging & Storage:

- Packaged in 200KG iron drums.
- Store at room temperature, dry, and away from light.
- Non-flammable and non-explosive, classified as non-hazardous for transport.
- Best used within 12 months from the production date. Re-inspect 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.