# Vinyl MTQ Silicone Resin

# SK-VR-8290

## Product Description:

● SK-VR-8290 is a co-hydrolysate of tetraalkoxysilane, trialkoxysilane, and trimethylalkoxysilane. By introducing T units into the MQ framework, it forms a hybrid structure with a rigid MQ core and branched T chains, delivering superior reinforcement efficiency and heat resistance. Approximately 50% soluble in vinyl-terminated silicone oil, this resin offers exceptional transparency and thermal stability, making it an ideal reinforcing filler for ultra-high-performance silicone rubbers and specialty coatings.

## Technical Specifications:

| Test Item | Typical Data | Test standard/Instrument |
|---|---|---|
| Appearance | Colorless to light yellow transparent liquid | Visual inspection |
| M/Q Ratio | 0.75~0.85 | / |
| Viscosity (mPa·s /25°C) | 9000~11000 | GB/T 10247-2008 |
| Vinyl Content (wt.%) | 1.70~2.00 | Sodium thiosulfate titration |
| Refractive Index (25°C) | 1.41±0.01 | GB/T 6488 |
| Volatile content (%) | ≤10.0 | 150°C/3H, atmospheric drying |

## Typical Applications:

● High-Performance Reinforcement: Enhances mechanical properties of liquid silicone rubbers.

● LED Encapsulation: Ideal for high-temperature, high-transparency LED packaging and semiconductor protective coatings.

● Electronic Potting: Provides high hardness and strength in addition-cure potting compounds.

## Packaging & Storage:

● 200KG sealed drums.

● Store in cool, dry conditions (<30°C), protected from light.

● Non-hazardous | Complies with standard freight regulations.

● 12-month shelf life (QC revalidation required post-expiration).

## Safety & Environmental Notes:

● Wear appropriate protective gear when handling. Refer to the MSDS for details.

● Dispose of packaging in compliance with local solid waste regulations.

## Notes:

- The information contained in this document is based on reliable data we have obtained. The content, product performance improvements, and product specifications may change without prior notice.
- The information provided in this document is based on our laboratory and practical experience and is for reference only. Since the conditions and methods of using this product are beyond our control, it is essential to conduct application tests and evaluations before use.
- Some performance parameters of the product can be adjusted according to customer requirements. If needed, please contact our technical department engineers.