

Vinyl MQ Silicone Resin

SK-VR-7103-20

Product Description:

● SK-VR-7103-20 is a co-hydrolysate of tetraalkoxysilane and trimethylalkoxysilane, forming a three-dimensional polysilicic acid network with trimethylsilyl and vinyl dimethylalkoxysilyl terminal groups. Approximately 50% soluble in vinyl-terminated silicone oil, this resin offers exceptional transparency and heat resistance, making it an ideal reinforcing filler for addition-cure liquid silicone rubber (LSR) and high-temperature vulcanized (HTV) silicone rubber.

Technical Specifications:

Test Item	Typical Data	Test standard/Instrument
Appearance	Colorless to light yellow transparent liquid	Visual inspection
M/Q Ratio	0.70~0.80	/
Viscosity (Pa·s /25°C)	180~220	GB/T 10247-2008
Vinyl Content (wt.%)	1.25~1.45	Sodium thiosulfate titration
Refractive Index (25°C)	1.41±0.01	GB/T 6488
Volatile content (%)	≤1.0	150°C/3H, atmospheric drying

Typical Applications:

- High Reinforcement: Enhances mechanical properties of LSR and HTV silicone rubbers.
- Optical Clarity: Ideal for high-transparency components like optical lenses.
- Silicone Leather: Improves wear resistance and surface texture of silicone leather products.

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.