# Hydrogen-Containing Hybrid Silicone Resin

## SK-HR-7050

## Product Description:

- This product is a co-hydrolysate formed by the hydrolysis-condensation of monofunctional, difunctional, and tetrafunctional siloxane units. By incorporating an MQ-framework organic-inorganic hybrid structure into the linear D chain, it delivers better reinforcement performance, faster curing speed, and improved compression set in silicone rubber compared with conventional hydrogen-containing silicone oil. It is widely used in addition-cure silicone rubber and other fields.

## Technical Specifications：

| Test Item | Typical Data | Test standard/Instrument |
|---|---|---|
| Appearance | Colorless transparent liquid | Visual |
| Viscosity (mPa·s @25°C) | 20~50 | NDJ-8S |
| Hydrogen Content (wt.%) | 0.45~0.55 | HG/T 4804-2015 |
| Refractive Index (25°C) | 1.395±0.005 | GB/T 6488 |
| Volatile content (%) | ≤3.0 | Dried at 120°C for 1 hr, ambient pressure |

## Typical Applications:

- Silicone rubber reinforcement: used as a reinforcing filler to improve the mechanical properties of liquid silicone rubber.
- Electronic potting adhesive: used as a crosslinker for addition-cure potting adhesives to improve compression set and curing speed.

## Packaging & Storage:

- SK-HR-7050 is packed in 200 kg/drum.
- Store at room temperature in a ventilated place. Protect from rain and moisture.
- Non-flammable and non-explosive. Transport as non-dangerous goods.
- Best used within 12 months from date of manufacture. If expired, use only after passing retest..

## 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.