

Baysilone* OF-OH702-4%

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Description

OF OH 702-4% silicone fluid is a low molecular weight, non-solvent based, linear polydimethylsiloxane that is terminated with primary carbinol groups capable of normal alcohol reactions. The carbinol group is terminated through a non-hydrolyzable Si-C bond to the silicone polymer.

OF OH 702-4% silicone fluid may be considered for reactions with various polyurethane and polyester polymers to create a hybrid polymer.

Key Features and Benefits

- Functionalized with reactive organic groups capable of forming non-hydrolyzable covalent bonds with a variety of resin systems such as polyurethanes and polyesters.
- Strictly difunctional, and hence virtually no increase of crosslink density.
- Low molecular weight for improved compatibility in resin systems.
- Elegant and virtually permanent means of delivering silicone-like properties to resin systems.
- A hybrid polymer partially composed of OF OH 702-4% silicone fluid may exhibit improved water resistance, flexibility, slip/release, weatherability or thermal stability at both high and low temperatures.
- Virtually 100% silicone actives.

Typical Physical Properties

Property	Unit	Value
Appearance	–	Clear liquid
OH value	weight %	4
OH value 132	mg _{KOH} g ⁻¹	132
Kinetic Viscosity at 25°C	mm ² s ⁻¹	37
Water Solubility	–	Not soluble in water

The data values of typical physical properties should not be used as specifications that are available if

contacting Momentive Performance Materials sales office.

Potential Applications

OF OH 702-4% silicone fluid contains terminal hydroxyalkyl (-CH₂-OH) groups. In contrast to the silanol (-Si-OH) terminated dimethylsiloxanes of Silopren* E or Silopren C fluid series, OF OH 702-4% silicone fluid is able to form non-hydrolyzable ether bonds. Therefore, it may be chemically bonded into resin systems that are reactive towards alcohols, like polyurethane sealants, fabric and leather coatings or synthetic leather, potentially imparting durable silicone properties without creep and migration.

OF OH 702-4% silicone fluid is hygroscopic and care should be taken to exclude moisture from the containers, as water may interfere in many of the reactions in which OF OH 702-4% silicone fluid is utilized.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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