

Baysilone™ OF-OH502 6%

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Description

Baysilone OF OH 502 6% is a very low molecular weight solvent-free, linear polydimethylsiloxane with terminal primary hydroxyalkyl-groups capable of normal alcohol reactions. Strict quality controls are observed throughout its manufacture to ensure that each molecule is functionalised with exactly two hydroxyl groups at each end of the polymer.

Baysilone OF OH 502 6% is soluble in ethanol, n-butanol, aromatics, medium hydrocarbons, and carbon tetrachloride and is easily emulsifiable in water due to its high polarity. It is not soluble in polydimethylsiloxanes.

Key Features and Benefits

- Able to participate in reactions similar to those undertaken with any alcohol, such as a polyol in polyurethane chemistry.
- Ease of use due to strict stoichiometric control of hydroxyl content.
- When reacted into a polymer it imparts permanent flexibility, abrasion resistance, antidrag and anti-stick properties as well as low temperature elasticity.
- Imparts hydrophobicity.

Typical Physical Properties

| Test | Unit | Value |
|---------------|------|-----------------|
| Physical Form | - | Pourable liquid |

| | | |
|--------------------------|----------------------------------|------|
| OH-groups | Weight-% | 6 |
| Flash Point | °C | ~ 58 |
| Kin. - Viscosity at 25°C | mm ² ·s ⁻¹ | 35 |
| Specific Gravity at 25°C | g·cm ⁻³ | 0.98 |

Table 1: Typical product data values should not be used as specification. Assistance and specifications are available from Momentive Performance Materials.

Potential Applications

Baysilone OF OH 502 6% silicone contains terminal hydroxyalkyl (-CH₂-OH) groups. In contrast to the silanol (-Si-OH) terminated dimethyl-silicones of the Baysilone T fluid series, Baysilone OF OH 502 6% is able to form non-hydrolysable ether bonds.

Therefore, it can be chemically bonded into systems that are reactive towards alcohols, like polyurethane fabric and leather coatings imparting durable silicone properties without creep and migration.

In case a higher molecular weight version is required, we recommend Baysilone OF OH 502 3%.

Packaging

Baysilone OF OH 502 6% is available in This product is available in 50kg pails and 184 kg drums.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

Availability

Products may be ordered from Momentive Performance Materials, the Momentive Performance Materials Sales office nearest you or where appropriate, an authorized Momentive Performance Materials product distributor. Contact information is supplied on the last page of this datasheet

Contact Information

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

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