Baysilone* OF-OH502 3%

Description
Baysilone OF OH 502 3% is a 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 3% 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

<table>
<thead>
<tr>
<th>Physical Form</th>
<th>-</th>
<th>Pourable liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>OH-groups</td>
<td>weight-%</td>
<td>3</td>
</tr>
</tbody>
</table>
Table 1: Typical product data values should not be used as specification. Assistance and specifications are available from Momentive Performance Materials.

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>°C</td>
<td>~ 90</td>
</tr>
<tr>
<td>Kin. - Viscosity at 25°C</td>
<td>mm²·s⁻¹</td>
<td>35</td>
</tr>
<tr>
<td>Specific Gravity at 25°C</td>
<td>g·cm⁻³</td>
<td>0.98</td>
</tr>
</tbody>
</table>

Potential Applications
Baysilone OF OH 502 3% 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 3% fluid 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 lower molecular weight version is needed, we recommend Baysilone OF OH 502 6%.

Packaging
Baysilone OF OH 502 3% is available in 50kg pails and 184 kg drums.

Product Safety, Handling and Storage
Standard copy to come

Limitations
Standard copy to come

Contact Information
For product prices, availability, or order placement, contact our customer service at
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