

Baysilone™ OF-OH502 3%

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

| | | |
|---------------|----------|-----------------|
| Physical Form | - | Pourable liquid |
| OH-groups | weight-% | 3 |

| | | |
|--------------------------|----------------------------------|------|
| Flash Point | °C | ~ 90 |
| 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 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 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

Contact Information

Email

commercial.services@momentive.com

Telephone

| Americas | Latin America | EMEAI- Europe, Middle East, Africa & India | ASIA PACIFIC |
|-------------------------|----------------------|---|---------------------|
| +1 800 295 2392 | Brazil | Europe | China |
| Toll free* | +55 11 4534 9650 | +390510924300 | 800 820 0202 |
| +704 805 6946 | Direct Number | Direct number | Toll free |
| Direct Number | | | +86 21 3860 4892 |
| | | | Direct number |
| *All American countries | Mexico | India, Middle East & Africa | Japan |
| | +52 55 2169 7670 | + 91 44 71212207 | +81 3 5544 3111 |
| | Direct Number | Direct number* | Direct number |
| | | *All Middle Eastern countries, Africa, India, | Korea |
| | | | +82 2 6201 4600 |

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

DISCLAIMER:

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS

OR SERVICES DESCRIBED HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.