

Silbreak™ 327 Silicone Demulsifier

Silbreak* 327

Description

Silbreak 327 silicone demulsifier is based on a modified polydimethylsiloxane and contains no halogens. Silbreak 327 silicone demulsifier is an excellent candidate to consider for use to combine effective demulsification and foam control performance in crude oil and natural gas separators.

Key Features and Benefits

- Powerful demulsification effect, particularly when combined with polyols
- Significant foam control effect in gas oil separators
- Effective at low dosage levels

Typical Physical Properties

Property	Unit	Value
Appearance	–	Clear, colorless to slightly amber liquid
RSN ⁽¹⁾	–	11.5 ⁽¹⁾ or 7.4 ⁽²⁾
Density at 20°C	g•cm ⁻³	0.870
Viscosity at 20°C	mm ² •s ⁻¹	85
Flash Point Pensky-Martens Closed Cup ASTM D-93	°C	81
Solubility	–	Higher alcohols and aromatic hydrocarbons

(1) Established using toluene/tetrahydrofuran solution

(2) Established using toluene/dimethoxyethane solution

The RSN value was determined experimentally.

Typical data are average data and actual values may vary.

Typical data shall not be used as product specifications.

Potential Applications

As with many Silbreak demulsifiers, Silbreak 327 silicone demulsifier is not intended to replace organic demulsifiers. Rather it should be blended with organic demulsifiers at levels ranging from 2 to 25% to boost the effect or clean up the separated water.

Silbreak 327 silicone demulsifier has shown strong synergies with organic polyols. At levels as low as 2%, it can contribute to the clarity of the separated water. It can be effective on light and medium crudes, and when combined with polyols, it has shown demulsification activity at lower temperatures.

Silbreak 327 silicone demulsifier is water incompatible and has only limited solubility in crude oil. This property can offer a distinct performance advantage in non-polar or slightly polar media such as crude oil, refined petroleum products or foaming dry-cleaning solutions that may contain low concentrations of aqueous soaps. In such cases, Silbreak 327 silicone demulsifier may be added directly to the foaming medium either on its own or as part of a demulsifier formulation to obtain foam control. Dosage levels will depend on the level of foam control needed and the gas/oil ratio. Typical levels range between 5 and 50 ppm of a 30% solution.

Solvents recommended for use with Silbreak 327 silicone demulsifier include aromatics and alcohols. Dilutions should be used within a few days to avoid product and performance degradation. Appropriate care should be taken when using flammable solvents.

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

Silbreak 327 silicone demulsifier is best stored at temperatures between 0°C and 35°C

to facilitate ease of handling, but storage at lower or higher temperatures will not affect subsequent defoaming performances.

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

Email

commercial.services@momentive.com

Telephone

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

***Silbreak™ ist ein Markenname der Momentive Performance Materials Inc.**

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.