

Silbreak™ 400

Silbreak* 400

Description

Silbreak 400 silicone demulsifier is an excellent candidate to consider for use in demulsifying heavy crudes under extreme conditions such as those experienced in heavy crudes stabilized by fine solids or sands.

Key Features and Benefits

- Powerful demulsification effect, particularly when combined with polyols or amine condensates
- Helps achieve clean separated water
- Effective at low dosage levels

Typical Physical Properties

| Property | Unit | Value |
|---|----------------------------------|---|
| Appearance | — | Clear, light straw / light yellow |
| RSN | — | 11.7 ⁽¹⁾ or 7.0 ⁽²⁾ |
| Density at 20°C | g•cm ⁻³ | 1.020 |
| Viscosity at 20°C | mm ² •s ⁻¹ | 2500 |
| Flash Point Pensky-Martens Closed Cup ASTM D-93 | °C | 98 |
| 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 400 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 400 silicone demulsifier generally shows strong synergies with organic polyols and amine condensates. At levels as low as 2%, it can contribute to the clarity of the separated water. It is particularly effective on heavy crudes of less than 15° API.

Solvents recommended for use with Silbreak 400 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

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Product Safety, Handling and Storage

Silbreak 400 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.

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