

FF190

Foam Control Agent

Description

FF190 foam control agent is a 100% active fluorosilicone polymer (modified with fluoro-containing groups) having the advantages of combined silicone and fluorocarbon chemistries for use in a variety of foam systems. It is an excellent candidate to consider for use in high-foaming non-aqueous systems, including those found with petroleum stocks in high-pressure separators.

Key Features and Typical Benefits

- Insolubility in a variety of solvents for excellent foam control
- Excellent resistance to emulsification for long lasting antifoam effect
- Chemical and oxidation resistance, enabling use in extreme air temperatures (–60 to 200°C) and high chemical reactivity systems
- Low surface tension
- Foam control at very low treat rates
- Low viscosity, easy to handle

Potential Applications

- Foam control in gas/oil separators
- Lube oil additive packages

Typical Physical Properties

| Property | Typical Value |
|---|------------------------------|
| Appearance | Translucent colorless liquid |
| Active content, % | 100 |
| Density (25 °C / 77 °F) g/cm ³ | 1.17 |
| Soluble in | Ketones, some esters |
| Viscosity at 25 °C / 77 °F (cPs) | 500 |
| Freeze Point, °C / °F | <-20 / <-4 |
| Flash point - ASTM D93, °C / °F | > 150 / > 302 |

Typical properties are average data and are not to be used as or to develop specifications.

General Consideration For Use

FF190 foam control agent belongs to a special class of organofunctional silicone materials capable of controlling foam in non-aqueous systems due to its inherently low surface energy. FF190 foam control agent can be used alone, but dilution with an appropriate solvent is recommended to reduce its viscosity and help ensure accurate, low dose treat rates. Depending on the lowest possible setting of the dosing pumps, dilutions will typically vary between 1 and 5% by weight. Ketones, esters and ethers are generally recommended for use as solvents, and will vary depending upon the desired effect. For example, if a high boiling point solvent is needed, tributyl phosphate is recommended, as are esters of dicarboxylic acids should a high flash point solution be desired.

Neither THF (tetrahydrofuran) nor dioxane should be considered for a solvent, as they may degrade the polymer. It is highly recommended that diluted solutions be used within four weeks to avoid diminished performance.

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.

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