

SAG™ TP-367 Silicone Antifoam

Product Description

SAG TP-367 silicone antifoam is an excellent candidate to consider for use in controlling foam in non-aqueous systems, particularly diesel fuel and lube oils. It is based on a modified polydimethyl siloxane and does not contain halogen as an intentional ingredient. SAG TP-367 silicone antifoam is soluble in alcohols and aromatic hydrocarbons.

Key Features and Typical Benefits

- Compatible with most diesel fuel additive packages and lube oils
- Low Si content (ca 10%)
- Typically effective at low addition levels to diesel fuel and lube oils
- Durable defoaming effect. In tests conducted in our laboratories, no significant loss in antifoam performance was observed after four weeks aging
- Foam control performance generally not affected by the small amount of water usually present in the foamant

Typical Physical Properties

Appearance	Clear, slightly yellow liquid
Viscosity at 25 °C (77 °F), mm ² • s ⁻¹	140
Specific Gravity at 20 °C (68 °F), g • ml ⁻¹	0.88
Flash Point Pensky-Martens closed cup ASTM D-93, °C	81
Freezing Point, °C	< -25
Solubility	Soluble in higher alcohols and aromatic hydrocarbons

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

Potential Applications

A suggested starting use level would be in the 8-20 ppm range addition ("treat rate") to the diesel fuel. The actual concentration of SAG TP-367 silicone antifoam required will depend on the exact composition of the diesel fuel and its additive package, as well as on the degree of foam control required.

The compatibility of SAG TP-367 silicone antifoam in the diesel additive package may be improved by the use of an alcohol, such as 2EH (2-ethyl-hexanol), isodecanol or aromatic solvents, although such measures are usually not needed.

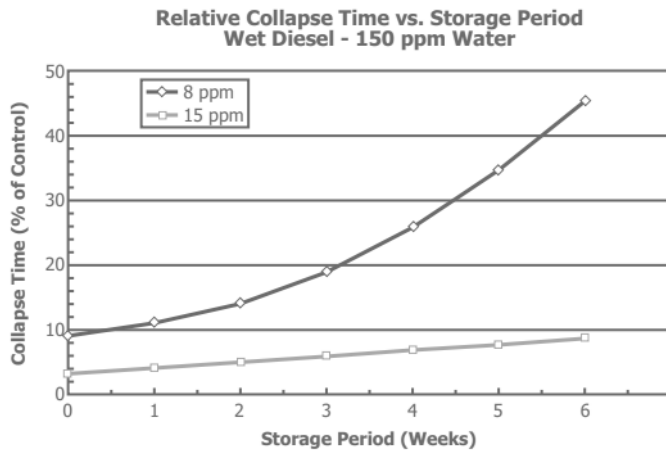
In laboratory tests, varying levels of SAG TP-367 silicone antifoam were dissolved in diesel fuel at ambient temperature (with a predilution in isodecanol), 100 ml aliquots were shaken for 30 seconds in a 250 ml tin flask using a mechanical shaker, and the time taken for a clear patch to appear on the surface was recorded. The test was run at 19 °C. The same test was repeated using "wet" diesel, i.e., diesel that contained 150 ppm of water.

SAG TP-367 silicone antifoam was evaluated at 2 different concentrations (8 ppm and 15 ppm) and over a 6 week period to check for changes in antifoam performance with time.

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The results are shown in Plot 1:

Plot 1: relative foam control curve of SAG TP-367 silicone antifoam vs. untreated, plotted against storage time in wet diesel. The plotted values express the relative foam height against diesel fuel without any additive, which gives a value of 100 %.



Note: Test data. Actual results may vary.

An alternative test method uses the BNPe injection test rig (NF M07-075). Various diesel fuels and diesel additive packages may be evaluated together with Momentive's various diesel fuel antifoams. This service is available to all interested accounts, and it may be governed by appropriate agreements.

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

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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