

Product Specification

TEGO® Antifoam MR 507**Product description**

TEGO® Antifoam MR 507 is an antifoam based on organomodified siloxanes for foam control in non-aqueous media.

Physical properties

Appearance	Yellowish to brownish liquid
Active content	Approx. 80 %
Solvent	Aromatic hydrocarbon
Silicone content	Approx. 10 %
Density (25 °C)	Approx. 1.0 g/cm ³
Viscosity (25 °C)	500 - 1 500 mPas

Application

TEGO® Antifoam MR 507 is used as an antifoam for diesel additive packages or diesel fuels. Our product can especially be used for diesel fuels with high amounts and different sources of bio components.

Benefits

Due to the high silicone content of TEGO® Antifoam MR 507 it outperforms conventional products in bio treated diesel fuels regarding following points.

Efficiency in dry and wet fuel

TEGO® Antifoam MR 507 reduces substantially and reliably both, foam collapse time and initial foam height. It maintains its outstanding performance even in wet fuel and after a storage time of the treated fuel exceeding 4 weeks.

Water shedding properties

Excellent water shedding properties could be achieved by using a sulphur-free demulsifier.

Reduced treat rate

Compared to conventional antifoams based on polyether siloxanes, TEGO® Antifoam MR 507 proved to be much more efficient resulting in strongly reduced treat rates.

Compatibility in additive packages

TEGO® Antifoam MR 507 may be incorporated into diesel additive packages requiring only small amounts or even no additional use of solvents, i. e. TEGO® Antifoam MR 507 supports the formulation of low-solvent additive packages. It shows excellent compatibility with a wide range of packages, regardless the solvent base, detergents, etc.

TEGO® Antifoam MR 507 can be incorporated in most additive packages yielding clear and stable formulations even at temperatures as low as -20 °C. If solvents have to be used conventional non-polar types (e.g. aromatic hydrocarbons) may be used.

Dosage/Handling

TEGO® Antifoam MR 507 is soluble in a variety of aromatic and aliphatic solvents (e.g. long-chain alcohols). This provides maximum flexibility in the formulation of diesel additive packages. The table below may give an overview on the solubility of TEGO® Antifoam MR 507 in standard solvents:

Solvent for TEGO® Antifoam MR 465	Soluble
Aromatic hydrocarbons	X
Toluene	X
Isodecanol	X
2-Ethylhexanol	X
Hexanol	X
Ethanol	X

Depending on the composition of the additive package and the fuel grade the dosage of TEGO® Antifoam MR 507 may vary over a wide range. Consequently, the optimum dosage has to be evaluated in suitable test series. For first trials we recommend a dosage of 8 to 12 ppm referred to the treated fuel.

This dose rate should also be used in the case of solely adding the antifoam to the diesel fuel.

Registration status

The ingredients of TEGO® Antifoam MR 507 are listed in the following inventories:

EINECS, TSCA, DSL, AICS, ECL, TAIWAN and PICCS

Storage stability

In original closed containers TEGO® Antifoam MR 507 can be stored at room temperatures for at least 1 year.

Packaging

950 kg containers

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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Evonik Nutrition & Care GmbH
Goldschmidtstraße 100
45127 Essen, Germany
Phone Europe +49 201 173 2665
Phone Asia +86 21 61191 125
Phone Americas +1 804 727 0700
interface-performance@evonik.com
www.evonik.com/Interface-performance

