

Silbreak™ 638

Description

Silbreak 638 silicone demulsifier is based on a modified polydimethylsiloxane that contains no added halogens. It is an excellent candidate to consider to efficiently break water-in-oil emulsions, control foam in oil-based systems, and is expected to be approved for use under European requirements for use and discharge of offshore chemicals.

Silbreak 638 silicone demulsifier may possess exceptional crude oil demulsification performance either on its own or in combination with non-silicone organic demulsifiers to which it may deliver a remarkable boost in the speed of separation. It may also control foam in gas/oil separators where typical polydimethylsiloxane oils may not be effective or do not satisfy European regulations for the use and discharge of offshore chemicals.

Key Features and Typical Benefits

- acts in gas/oil separators both as demulsifier as well as foam control agent
- can boost performance of demulsifier formulations
- fast separation of water from crude oil, particularly during the initial phase of separation
- low BSW
- potential overall cost reduction due to lower dosages
- essentially free of phenolic derivatives
- can be easily blended with organic demulsifiers

Typical Physical Properties

Polarity (HLB)	7
Silicone RSN	12.7
Viscosity cSt, 20°C	160
Density g/cm ³ , 20°C	0.91
Silicone Molecular Weight	1600
Solubility in Water (1%)	Dispersible
Preferred Solvents	Aromatics, 2-ethyl-hexanol
Flash Point (°C, Closed Cup)	>80

Typical data are average data and actual values may vary.

Typical data shall not be used as product specifications.

The information shown above on the polarity and molecular weight may be useful in case blending with other materials is desired. The polarity is based on the best estimate of HLB as calculated from the solubility parameters (Barton, A.F.M. Handbook of Solubility Parameters and Other Cohesion Parameters, Boca Raton: CRC Press, 1983) based on the composition of Silbreak 638 silicone demulsifier.

The RSN value was determined experimentally.

Patent Status

Standard copy to come

Product Safety, Handling and Storage

Standard copy to come

Limitations

Standard copy to come

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