

Technical Information Sheet

Defoamers / Antifoaming agents

Poly Dimethyl Siloxane based Defoamer Compound

Rockdefoam DMS-100 is a dimethyl polysiloxane and silanes based high active compound defoamer. It is applicable both in aqueous and non-aqueous systems in a variety of applications.

Rockdefoam DMS-100 can be pre-diluted with 2-Ethyl hexanol, Toluene, M.E.K. or similar solvents before usage. In toxicological aspects it is considered as a harmless product.

Properties:

Appearance: White to grayish, opaque liquid

Nature: Dimethyl polysiloxane

Activity %: 98 ± 1

Odor: Neutral

Flash point °C: >200

Setting point °C: -50

Viscosity at 25°C: S4 R100 5000-5600

Density(kg/m³): 970 - 980

Solubility: Insoluble in water, soluble in solvents, white oil and some alcohols

Solidification Point: +5°C

Safety : Please refer to MSDS

Packing: 100 or 200 KG PE drums

Rockdefoam DMS-100

Applications & Recommendation:

Rockdefoam DMS-100 is used in the following industries in both pure or emulsified forms:

- Chemical and petrochemical industries
- Textile and leather industries
- Manufacturing of cleaning agents
- Epoxy resins manufacturing
- Distillation and gas washing
- Oilfield and Crude oil operations
- Aqueous and non-aqueous polymerization processes
- Refinery process
- PVA and Acrylic polymerizations

The dosage of consumption varies to the type of application and is 0.001-0.01 g/l.

HOW TO EMULSIFY:

Rockdefoam DMS-100 is not water soluble but it can be emulsified with (Rockapon FAE-1830) as follow:

1. Charge 1 part Rockdefoam DMS-100
2. Add 2 parts Rockapon FAE-1830
3. Mix for a while to uniform
4. Add certain amount of DM water to obtain desired percentage of defoamer emulsion after 2-3 hours.
5. Add 0.1% preservative such as Rockbiocide TRIAZINE-05.

IMPORTANT:

- * DM Water should be used
- * No need to extra heating but in case it's needed then temperature shouldn't exceed 45 - 50 °C.
- * Stirrer power shouldn't exceed 45 - 55 RPM as the viscosity and defoaming power of the emulsion product will be effected accordingly.
- * If you do not add water into base defoamer and emulsifiers, it will separate phases after sometimes, hence you can not present 100% solid.

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NOTE: According to our best knowledge and technical experiments, the above data is true and accurate. Regarding to variety of consumption procedures, it is recommended to evaluate the information before use.

