

Silcolapse® 430

Silicone defoamer

November 2017

Description	<p>Silcolapse® 430 is a compound 100% active containing polydimethylsiloxane oil and silica with an excellent behavior in a large range of pH.</p> <p>Silcolapse® 430 is mainly intended for treatment of anhydrous and aqueous foaming systems and has many applications in industry and food.</p>
Features	<ul style="list-style-type: none"> • Silcolapse® 430 is Kosher • Can be used as supplied, or pre-diluted in a solvent. It disperses readily in most media. • The product can be used with automatic injection systems. • Low dose efficiency of around 1 to 100 mg per kg of system to be defoamed. • Chemically inert with regards to the system to be defoamed.
Examples of Applications	<p>Silcolapse® 430 has numerous applications in such fields as:</p> <ul style="list-style-type: none"> • Oil: Alkanolamine washing of natural or refinery gases. • Crop: Protection products: Product formulations (emulsifiable concentrates and aqueous dispersions). • Detergents • Chemicals: Distillation, extraction, evaporation, dissolution, filtration, etc. • Food: Silcolapse® 430 can be used as “Food Contact” and “Technologic Auxiliary”, subject to different national regulations. For further information about relevant legislations and chapters, please contact our technical or sales staff. • Fermentation <p>Important point: Silcolapse® 430 cannot be used as “Food Additive”.</p>

Typical Properties

• Appearance	opalescent homogeneous liquid
• Color	grey white
• Odor	none
• Viscosity, at 25°C, approx	2000 mPa.s
• Active ingredient content, % approx.	100
• Specific gravity at 25°C, approx.	1.0
• Emulsifiers	none
• Diluents	aromatic, aliphatic and chlorinated hydrocarbons Polar solvents
• Effective concentration, mg/kg	1 to 100

Please note: The typical properties listed in this bulletin are not intended for use in preparing specifications for any particular application of **Silcolapse®** silicone materials. Please contact our Technical Service Department for assistance in writing specifications.

Instructions for use	<p>Silcolapse® 430 is equally efficacious in aqueous and anhydrous media. It disperses readily provided a suitable thinner is used (see below).</p> <p>Silcolapse® 430 is normally used in a concentration comprised between 1 and 100 mg per kg of medium to be defoamed. It can be used as it is, or if necessary be diluted to a concentration varying between 1 and 10% (slowly add 99 or 90 parts of the chosen diluent to between 1 and 10 parts of Silcolapse® 430).</p>
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The diluents used will have to comply with the specific application regulations.

Examples of thinners recommended in industrial process aid:

a/ in anhydrous media

- aliphatic hydrocarbons (hexane, heptane, white spirit, etc...),
- aromatic hydrocarbons (toluene, xylene, naphta solvent, etc...),
- chlorinated hydrocarbons (trichlorethylene, perchlorethylene, etc...).

b/ in aqueous media

In this case thinners should be either water-soluble or water dispersible such as :

- ketones, e.g. methylethylketone or methylisobutyl-ketone,
- alcohols, e.g. tertiobutanol, dodecanol-1 or ethyl-2 hexanol,
- ethers, e.g. ethyl ether or isopropyl ether.

Methanol, isopropanol, ethylene glycol, propylene glycol, glycerine, are not recommended for diluting **Silcolapse® 430**, as they are not solvents of the silicone oil in the compound.

Remarks:

- *Prior dilution tests are recommended in all cases before any operation on an industrial scale.*
- *The colloidal filler in the compound may cause cloudy dilutions.*
- *The diluted antifoam can be held in a tank for long period without detriment but it should be kept in uniform suspension by means of continuous slow stirring. Users should make systematic tests to determine the optimum concentration of **Silcolapse® 430**, which generally depends on a number of factors, composition of the medium, temperature, pH and intensity of agitation.*

Storage and shelf life	Silcolapse® 430 may be stored for up to 12 months from its date of manufacture when stored on its original unopened packaging at a temperature of between -20°C and +50 °C.
Safety	Product safety information required for safe use is not included. Before handling, please read the Material Safety Data Sheet (MSDS) and container labels for safe use, physical and health hazard information. To obtain a material safety data sheet for this product contact Elkem at 866-474-6342.
Packaging	Silcolapse® 430 is available in 25 kg and 200 kg containers.

Visit our website www.silicones.elkem.com

Silcolapse® 430

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