

# SILCOLAPSE 430

**Description** **SILCOLAPSE 430** is a compound 100% active containing polydimethylsiloxane oil and silica with an excellent behaviour in a large range of pH.  
**SILCOLAPSE 430** is mainly intended for treatment of anhydrous and aqueous foaming systems and has many applications in industry and food.

**Examples of applications** **SILCOLAPSE 430** has numerous applications in such fields as:

- **Oil** : Alkanolamine washing of natural or refinery gases.
- **Crop** : Protection products: Product formulations (emulsifiable concentrates and aqueous dispersions).
- **Chemicals**: Distillation, extraction, evaporation, dissolution, filtration, etc.
- **Detergents**
- **Fermentation**
- **Food contact**

**SILCOLAPSE 430** can be used as "Food Contact", subject to different national regulations. For further information about relevant legislations and chapters, please contact our technical or sales staff.

**Important point: SILCOLAPSE 430 cannot be used as "Food Additive".**

**Key benefits**

- Easy to use: it can be used as supplied, or prediluted 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.

Typical properties	Aspect	opalescent homogeneous liquid
	Colour	grey white
	Odour	nil to infinitesimal
	Viscosity, at 25°C, mPa.s, approx	2000
	Active ingredient content, %, approx	100
	Specific gravity at 25°C, approx	1.0
	Emulsifiers	none
	Effective concentration, mg/kg	1 to 100
	Diluents	aromatic, aliphatic and chlorinated hydrocarbons, Polar solvents

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

**Instruction of use** **SILCOLAPSE 430** is equally efficacious in aqueous and anhydrous media. It disperses readily provided a suitable thinner is used (see below).  
**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**).  
 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 :

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- ketones, e.g. methylethylketone or methylisobutyl-ketone,
- alcohols, e.g. tertibutanol, 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.

<b>Regulation</b>	Please consult your local ELKEM SILICONES sales office.
<b>Limitations</b>	Please consult your local ELKEM SILICONES sales office.
<b>Packaging</b>	<ul style="list-style-type: none"> <li>• SILCOLAPSE 430 is available in                             <ul style="list-style-type: none"> <li>○ Drum of 200 KG (441 LB)</li> </ul> </li> </ul>
<b>Storage and shelf life</b>	When stored in its original packaging: SILCOLAPSE 430 may be stored at temperatures between -5°C / 23°F and 40°C / 104°F for up to 18 months from its date of manufacturing. Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.
<b>Safety</b>	Please consult the Safety Data Sheet of: SILCOLAPSE 430

Visit our website [www.elkem.com/silicones/](http://www.elkem.com/silicones/)

#### Warning to the users

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. ELKEM SILICONES guarantees that its products comply with its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for given use. Determination of the suitability of product for the uses and applications contemplated by users and others shall be the sole responsibility of users. Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorisations. Users are requested to check that they are in possession of the latest version of this document and ELKEM SILICONES is at their disposal to supply any additional information.