

Description **SILCOLAPSE 414** is a non-ionic aqueous emulsion based on polydimethylsiloxane oil. It has 15% active matter content and is recommended for the prevention, control or elimination of foam in aqueous systems.

Examples of applications **SILCOLAPSE 414** is multi-purpose: it therefore has applications in all types of industries that are faced with problems of controlling problem foams in aqueous systems.

Chemicals and petrochemicals:

- Distillation, extraction, evaporation, filtration
- Polymerisation of latex
- Propylene oxide production
- Acrylonitrile synthesis
- Compounding of latex for mortars

Textiles industry:

- Conventional dyeing, finishing, etc.
- Processing of synthetic latex

Tannery:

Finishing of leathers

Key benefits

- Easy to use: it can be used as delivered or pre-diluted in water or in the aqueous system to be defoamed.
- Highly efficient at all pH's, Low dose efficiency, of around 10 to 1000 mg per kg of system to be defoamed.
- Chemically inert with regards to the substance to be defoamed therefore leaving its properties unchanged.

Typical properties

	SILCOLAPSE 414
Color European Pharmacopea	White / Cream
Dry content	30 %
pH ISO 976	7.25

Appearance.....uniform, creamy emulsion
 Colour..... creamy white
 Odour..... none, weak
 Active matter content, %, approx..... 15
 Dry matter content, %, approx..... 30
 Specific gravity at 25°C, approx..... 1.0
 pH, approx. 8
 Emulsifiernon ionic

SILCOLAPSE 414

Technical Data Sheet n° 895-V3 – 2018/11/05

Diluent water
Effective concentrations, mg/kg10 to 1,000

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 414 is most efficient in aqueous systems:

- at all pH's and especially in alkaline systems
- In highly turbulent systems

SILCOLAPSE 414 is normally used at concentrations of between 10 and 1000 mg/kg (or per litre) of system to be defoamed.

SILCOLAPSE 414 is ready to use as delivered, or it can be pre-diluted to around 1% active matter by slowly adding, 14 parts water or foaming system to 1 part of antifoam.

Doing this in reverse order is not recommended.

Prediluting in this manner makes it easier to disperse the antifoam in the system to be defoamed and enables more accurate dosage.

Comment: *it is not recommended to store solutions of **SILCOLAPSE 414** pre-diluted to less than 1% dry content due to their limited stability over time.*

Packaging

- SILCOLAPSE 414 is available in
 - Pallet of 1000 KG (2205 LB)
 - Pail of 25 KG (55.13 LB)

Storage and shelf life

When stored in its original packaging:

SILCOLAPSE 414 may be stored at a temperature between 2 °C/ 36 °F and 30 °C/ 86 °F for up to 12 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.

Regulation

Please consult your local ELKEM SILICONES sales office.

Limitations

Please consult your local ELKEM SILICONES sales office.

Safety

Please consult the Safety Data Sheet of:
SILCOLAPSE 414

Visit our website www.silicones.elkem.com

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

SILCOLAPSE 414

Technical Data Sheet n° 895-V3 – 2018/11/05

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.