

## LK-AF-698

**LK-AF 698 ANTIFOAM EMULSIONS** is high performance silicone based antifoam emulsions containing non-ionic surfactants and functional additives.

Foam formation is generally unwanted as it increases viscosity and reduces the density of liquids, thereby making stirring and transport difficult. It can also decrease the performance of the product, give application faults and decreases output. These antifoams not only effectively kill foam in low concentrations but also do not show any adverse environmental impact (when used in ETP) due to their inert nature (chemically and biologically) and ability to decompose.

### FEATURES

- Extremely high performance, thus effective at very low concentrations (10-100 ppm)
- Non-Reactive
- Easy to dilute using water
- Compatible with other systems
- Effective over wide temperature ranges
- Contains preservatives to prevent microbial growth

### APPLICATIONS

- Effluent Treatment
- Detergency
- Paper Industry & fermentation industry.
- Latex Manufacturing
- Oil and Natural gas production
- Agrochemical
- Construction (Cement processing)

### PRODUCT SELECTION GUIDE

LK AF 698 is Special-purpose antifoam emulsion and its viscosity and solid content can be adjusted according to demand. LK-AF 698 concentrate gives the best economic value, especially for industries where it is used in diluted concentration.

PRODUCT CHART <sup>1</sup>					
Product Name	Appearance	Viscosity (by Ford cup B5)	Solid Content (%) 110°C for 1 hour	pH	Defoaming & Antifoaming Activity
LK-AF-698	Milky Off-White Emulsion	300-500	25-30	6.0-8.0	Less than 15 sec

### SUGGESTED APPLICATION METHOD AND FORMULATION

The best diluent for LK-AF-698 Antifoam emulsions is cold water. This emulsion is stable up to reasonable levels of water hardness (200 ppm). Although the emulsion should be stable above 200-ppm hardness, it is advised to treat the water with a dilute aqueous solution of Sodium Ethylenediaminetetraacetic acid (Na-EDTA) to ensure stability of the emulsion by formation of complexes.

Advised usage of this product is from 5 to 50 ppm solids content, however results may be achieved at much lower concentrations. The required amount may change according to the nature and concentration of the surfactant, temperature and the degree of foam control required. The user is advised to optimize his process by initially testing the antifoam at higher concentrations (50 ppm) and then reducing the concentration to the desired level of foam control.

To find the weight of emulsion required (in kilograms) to obtain a required ppm solid content in 1000 liter water divide the required ppm by (10 x %solids)

E.g. To get a 50 ppm solution of a 25% solids emulsion  $50/(10 \times 25) = 0.2$  kilograms emulsion should be added for every 1000 liters water.

#### **Suggested Use:**

1. After estimation of the required quantity of antifoam required, pre-dilute the emulsion 2-10 times in cold water under low shear (to ensure efficient dispersion). Use this pre-diluted material immediately. USE DM water (free bacteria) for dilution. Agitate the product prior to use. For sufficiently high levels of agitation.
2. Inject the antifoam into the system, preferably up stream to the point of foam generation.

#### **PACKING**

50 Kgs can , 200-kg drums & 1000 Tote.

#### **SHELF LIFE**

Six months in the original container from the date of production.

#### **STORAGE & HANDLING**

It is recommended that normal safety precautions (hand gloves & safety goggles) be taken while handling the product. The material should be stored in original ELKAY containers in a cool place and protected from direct exposure to sunlight.

The information provided to the customers in this data sheet is intended as a guideline and is provided in good faith. The Information is believed to be accurate. Changes may occur from system to system as methods of use and conditions are beyond our control, hence **users are requested to evaluate the recommendations before actual application to get desired performance.**

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Internal References: DX40101