

AF 25100 (LAN 150)
Antifoam

Introduction

AF 25100 is a 100% active non-silicone antifoam. It has been specially formulated to offer the user excellent foam control and eliminate the problems sometimes caused by silicone antifoams in coatings and water based lattices used in paints and coatings e.g. cissing, fisheyes, cratering etc.

Key Features

- High antifoaming activity
- Resistant to wide pH range
- High versatility in a lot of different systems

Applications

Antifoam AF 25100 can be used to control foam in many processes in the chemical industry. It can be added to formulations of compounds to reduce aeration during processing. Applications envisaged for this highly active and versatile antifoam are in paints, inks and coating formulations; also in natural and synthetic latex based adhesives and the manufacture of paper and paperboard. The effective concentration of AF 25100 required to control foam will depend on many factors such as pH, temperature, nature of the foamable formulation and the concentration of "surface active" materials and their types. The following are offered as a guide for starter evaluations.

| | |
|---------------------------|--|
| Paints | start at 500 to 5000 p.p.m. |
| Inks | start at 200 to 1000 p.p.m. |
| Acrylics/Natural lattices | start at 500 to 2000 p.p.m. |
| Paper/Paperboard | start at 50 to 200 p.p.m. and work up or down depending on the type of pulp. |
| Adhesives | start at 500 to 2000 p.p.m. |

Note: 1000 parts per million (p.p.m.) is equal to 0.1%.

It may be necessary to use higher concentrations than those recommended above. Equally it might be possible to use less and customers are advised to evaluate the product in their formulation under their manufacturing conditions or laboratory simulations.

How to Use

AF 25100 should be used as received. It is recommended that containers are shaken or rolled to ensure homogeneity before use. The antifoam should be mixed into the product or formulation either as part of the mixing cycle i.e. for foam control during processing; or towards the final mixing stages for foam control after storage.

Mixing should be sufficient to disperse AF 25100 uniformly throughout the product. The types of mixers required will depend on the viscosity of the product.

Concentration of AF 25100 required for good foam control depends on the process where it is employed. If there is no previous experience of a foam problem, it is generally suggested to start with a concentration of 500 ppm and then to adjust the amount upwards or downwards in order to determine the most cost effective concentration.

| Property* | Test Method | Value |
|---------------------|-----------------|-----------------------------|
| Colour: | | Golden yellow / translucent |
| Appearance: | | Liquid |
| Density at 25°C: | BS 5350 Part B1 | 0.90 g/cm ³ |
| Defoaming Activity: | | 100 ppm |
| Solids Content: | | 100% |
| Active Content: | | 100% |

Suitable Diluents

Dispersible in aqueous media and vegetable or mineral oils

Health and Safety

Available on request

Packages

190 kg. Drums; IBC 850 kg.

Storage and Shelf Life

Over six months. This product should be stored between 5 and 30°C in clean sealed containers. The product should not be allowed to freeze.

Revision Date: 17.11.04

* The details are merely typical properties not specifications.