Lankem

Technical Data Sheet

Dfoam AX1
Dfoam AR2

Antifoams for aqueous systems

Description

Antifoams are used in many aqueous-based formulations where a build-up of foam may be a problem. Many systems already contain surfactants or dispersing agents which tend to foam to a certain degree. In mechanical or agitated systems foaming can be an issue, so the incorporation of an antifoam during processing will help to significantly reduce the problem.

Dfoam AX1 is designed specifically for paint formulations.

Dfoam AR2 is designed for aqueous dispersions.

Key Features

- Powerful Antifoam Properties
- Silicone Free
- APE Free

Specification

	Dfoam AX1	Dfoam AR2
Appearance at 25°C:	Hazy pale straw liquid free from foreign matter	Hazy pale straw liquid free from foreign matter
Saponification value mg. KOH/g:	14 - 18	14 -18
pH (5% aqueous):	4.0 - 5.0	6.0 - 8.0
Water content %:	1 max	1 max

Typical Properties

	Dfoam AX1	Dfoam AR2
Composition:	Mineral oil based antifoam	White oil based antifoam
Active content %:	100	100
Odour:	Mineral oil	Mineral oil
pH (1% aqueous):	4.0 - 5.0	6.0 - 8.0
Viscosity at 25°C (cP):	200	250
Density at 25°C g/cm$^{3:}$	0.88	0.88
Pour point °C:	<0	<0
Freeze thaw stable:	Yes	Yes

Applications

Dfoam AX1 is a silicone free antifoam that effectively prevents air entrainment, froth and foam. It coalesces minute air bubbles in the liquid, allowing them to rise easily to the surface, and promotes rapid bubble film rupture on the surface of the liquid. Foaming is not only suppressed during manufacture, it remains suppressed during stirring and application by the consumer. Foam control is easily and effectively achieved with small percentages of DFoam AX1. This ensures an economical method of foam control.

Dfoam AX1 is specifically compatible with a variety of polymer latices including styrene butyl acrylate, acrylic, PVC, styrene-butadiene and vinyl acetate, for use in paints and adhesives.

Dfoam AR2 has been designed for use in all aqueous dispersions such as pigments and inorganic powders. With increased antifoam properties compared to Dfoam AX1, its specifically suitable for lower viscosity systems. Most dispersion preparations are made under agitation, Dfoam AR2 helps to prevent foam build-up during production.

Typical addition levels:

Paints	0.2 to 0.5%
Adhesives	0.5 to 1%
Pigment Dispersions	0.1 to 0.5%

Typical Application Examples

Dfoam AX1

- Water Treatment
- Paper Treatment
- Paints
- Adhesives

Dfoam AR2

- Paper Treatment
- Paints
- Adhesives

Packaging and Storage

Dfoam AX1 and Dfoam AR2 an be supplied in 800Kg IBC, 160kg or 20kg nett drums.

Stainless steel, polyethylene or glass lined equipment is necessary for the storage of Dfoam AX1 and Dfoam AR2 in order to prevent corrosion and subsequent contamination. This material can separate on standing and at low temperatures. May require agitation and warming prior to use.

Regulatory Information

Please refer to Safety Data Sheet