



HARCROS

Foam Control Technology

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Foam Control - Why?

Foam Control Agents are often classified as defoamers or antifoams; defoamers are added after the generation of foam and antifoams are added to a system prior to foam generation. These terms are often used synonymously when discussing foam control. Other references to foam control include degassing or de-aerating agents.

Foam can lead to a variety of issues in industrial processes. In packaging operations, foam can cause filling or yield issues, pump cavitation, and general production line inefficiencies. In coatings systems, microfoam or entrained air will generate pin-holes or other surface defects. Soap, surfactant, protein, and starch based foams can lead to unsafe and unsanitary work conditions.

Which type of antifoam to use depends upon the application. For example, silicone-based antifoams are generally not accepted for use in coatings systems due to compatibility issues.

General Foam Control Technology

Foam Control Agents generally fall into 3 basic categories:

Silicone-based products: 100% active compounds based on polydimethylsiloxane fluid (PDMS) and 2% - 60% emulsions thereof, suitable for many areas - agricultural, pool & spa, food processing, waste water, and general industrial foam control.

Oil-based (non-silicone): 100% active and water extended variants consisting of hydrocarbon, mineral or vegetable oils, waxes, silicas, and dispersants used in coatings applications and areas where silicone is generally not acceptable.

Polymer-based products: Low-foam surfactants, polypropylene oxide adducts, alkylene oxide adducts, and esters thereof used in yeast and beat sugar processing, fermentation, and formulated products.

Blends of the 3 classes above are common in most product lines.

Product Name	Type	Activity	Water Sol.	Properties	Applications
Antifoam 100 Ind./FG	Silicone Compound	100	I	Vicious Fluid	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam 100M	Silicone Compound	100	I	Vicious Fluid	Agri, Metal Fluid, Oil Field, General
Antifoam 10 Ind./FG	Silicone Emulsion	10	D	White Emulsion	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam 30 Ind./FG	Silicone Emulsion	30	D	White Emulsion	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam 8805 Ind./FG	Silicone Emulsion	5	D	White Emulsion	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam 8810 Ind./FG	Silicone Emulsion	10	D	Freeze-Thaw Stable Emulsion	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam 8820 Ind./FG	Silicone Emulsion	20	D	Freeze-Thaw Stable Emulsion	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam 8830 Ind./FG	Silicone Emulsion	30	D	Freeze-Thaw Stable Emulsion	Agri, Food Processing, Metal Fluid, Oil Field, General
Antifoam HL 23	Polymer	100	D	Clear Liquid	Agri, Fermentation, Compounding, Mineral Processing
Antifoam HL 27	Oil-Based	10	D	Creamy Yellow Liquid	Inks, Coatings, Paper Processing, Effluent
Antifoam HL 36	Polymer	100	D	Clear Liquid	Agri, Fermentation, Compounding, Mineral Processing
Antifoam HL 40	Oil-Based	100	D	Creamy Yellow Liquid	Inks, Coatings, Paper Processing
Antifoam HL 52	Oil-Based	100	I	Creamy Yellow Liquid	Inks, Coatings, Paper Processing
Antifoam HL 550	Polymer	50	S	Clear Liquid	Cleaners, Agri, Metal Fluids
Antifoam GN 11P	Polymer	100	S	Clear Liquid	Agri, Fermentation, Compounding, Gas Treating
PPG 2000	Polymer	100	D	Clear Liquid	Agri, Fermentation, Compounding, Mineral Processing
T Det® LF 416	Low-Foam Surfactant	100	S	Clear Liquid	Compounding, Auto Dishwash
T Det® A 826	Low-Foam Surfactant	100	S	Clear Liquid	Compounding, Auto Dishwash
T Det® 1618DI 302	Low-Foam Surfactant	100	I	Opaque Liquid	Pulp & Paper Processing
T Det® LF 505	Low-Foam Surfactant	100	S	Clear Liquid	Compounding, Auto Dishwash

I = Insoluble, D = Dispersible, S = Soluble

Antifoam **AF**

Antifoam **HL**

Antifoam **M**



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