



# S.S. 1000 DEFOAMER

**DESCRIPTION:** S.S. 1000 Defoamer is an antifoam emulsion of polydimethylsiloxane designed for defoaming aqueous systems. It is exceptionally easy to dilute and disperse and maintains its effectiveness at temperatures to boiling. Although designed primarily for food applications, it can also be used in many industrial process operations. For effective defoaming, concentrations ranging from 10 to 100 parts per million are required.

**FEATURES:**

Fast Acting	Industrial Grade
Long Lasting	Maximum Foam Control
Food Grade	Easy Dispersibility

**APPLICATIONS:**

<b><u>CHEMICAL PROCESSING</u></b>	<b><u>FOOD</u></b>
Adhesive Manufacture	Fruit Processing
Ink Manufacture(water base)	Instant Coffee Manufacture
Latex Processing	
Soap Manufacture	<b><u>MISCELLANEOUS</u></b>
Starch Processing	Leather Finishing
Textile Sizing	Metal Working
Wood Pulping	

**TYPICAL PROPERTIES:**

Chemical or Physical Type.....	Silicone Emulsion
Specific Gravity @ 25° C .....	1.0
Color.....	White
Consistency @ 25° C.....	Liquid Light Cream
pH.....	4 to 5
Heat Stability.....	110°F
Type of Emulsifier.....	Nonionic
Dispersibility.....	Readily dispersible in warm or cold water, with mild agitation
Shelf-Life.....	720 days

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## FOOD ADDITIVE STATUS:

S.S. 1000 Defoamer has been used in food related applications under FDA Regulation 173.340 as a direct additive at levels up to 10 ppm silicone solids. S.S. 1000 Defoamer generally has been found to comply with the following regulations for use as an indirect additive in the manufacture of food packaging components on food contact surfaces.

175.105	177.1200
176.170	177.2260
176.180	177.2800
176.200	178.3120
176.210	

## PROCESSING GUIDELINES:

Concentrations ranging from 10 to 100 parts per million have proved effective in most foaming systems. In testing to determine the most effective working concentration, a good starting point is to add 25 parts of antifoam emulsion (as supplied) per million parts of foamer. The results obtained at this concentration will indicate whether to increase the amount.

## DILUTING THE ANIT FOAM:

S.S. 1000 Defoamer emulsion disperses as desired easily in aqueous systems. The emulsion as supplied can be added directly to the foamer, requiring only agitation to thoroughly disperse.

For use in systems where maximum efficiency is desired, the silicone emulsion should be prediluted with water before being added to the foamer. If it is necessary to store the diluted material for longer than 8 hours, it should be frequently agitated.

## HANDLING AND STORAGE:

S.S. 1000 Defoamer exhibits excellent storage stability when proper handling procedures are followed. As with most emulsions, storage in cool place (60 - 75° F max) in tightly closed containers will provide maximum shelf life.

Under these conditions, S.S. 1000 Defoamer has a minimum of six (6) months shelf life. Because it contains water, it should be protected from freezing. Repeated freezing may damage the container or may separate the emulsion making it unsuitable for use.

ZEE COMPANY, INC. • 4146 South Creek Road • Chattanooga, TN 37406

***Customer Service: 800-782-0233***