

SiSiB® DF1068 Silicone Defoamer

INTRODUCTION

SiSiB® DF1068 is a non-ionic, compound-type silicone defoamer designed for fermentation processes. It provides excellent foam suppression and quick foam knockdown while maintaining high system stability under strong agitation. It is suitable for a wide range of microbial and enzyme fermentation systems.

BENEFITS

- Fast defoaming and long-lasting foam suppression
- High stability under high-shear fermentation conditions
- Non-ionic type, excellent compatibility with fermentation media
- Suitable for various bacterial and enzyme fermentation processes

PHYSICAL PROPERTIES

Appearance	Milky white liquid
Ionicity	Non-ionic
Solid Content (105°C, 120min, %)	25-45
pH value (1% aqueous solution)	6-9
Stability (3000 rpm, 30 min)	No stratification

Note: These values are typical and are not intended for use as specifications

APPLICATIONS

SiSiB® DF1068 is widely used in amino acid, enzyme, vitamin, antibiotic, and organic acid fermentation systems. It is particularly effective in applications where stable, low-foam operation is critical to oxygen transfer efficiency.

RECOMMENDED DOSAGE

SiSiB® DF1068 can be added directly to the base fermentation medium or dosed during the later stages of the process.

For post-addition, it is recommended to pre-mix the defoamer with polyether at a 1:1 ratio, stir thoroughly, and disinfect before introducing it into the system. The typical dosage is 0.05-0.1% (as supplied) based on the total fermentation volume. The product should be protected from freezing during storage and handling.

Optimal levels should be determined through pilot testing.

SiSiB® DF1068 Silicone Defoamer

PACKING

SiSiB® DF1068 is supplied in 25KG plastic pails, 200KG plastic drums and 1000KG IBC totes.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

SiSiB® DF1068 has a shelf life of 12 months from the date of production.

It should be stored in a dry and ventilated place. Pay attention to prevent humidity or freezing.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.