

SiSiB® DF1031 Silicone Defoamer for Nutrient Fermentation

INTRODUCTION

SiSiB® DF1031 is a silicone-based defoamer specifically developed for nutrient-rich fermentation media. It is composed of modified polysiloxane, silicone polyether, hydrophobic silica, and food-grade emulsifiers. Designed for high-foam systems like microbial culture and polyunsaturated fatty acid fermentation, it offers excellent safety and efficiency, with no adverse effects on microbial growth.

BENEFITS

- Highly effective in nutrient fermentation processes
- Food-safe and non-toxic; no inhibition to microbial growth
- Replaces 20 kg of soybean oil defoamer with just 1 kg
- Reduces contamination risk and improves oxygen transfer
- Especially suitable for vaccine production, Lovastatin, Vitamin B12, ARA, DHA, etc.

PHYSICAL PROPERTIES

Appearance	Milky white oily liquid
Viscosity (25°C, cst)	Max. 15,000Cst
Non-volatile Content	Min. 95%
Flash Point (Open cup)	Min. 180°C

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

APPLICATIONS

SiSiB® DF1031 is ideal for high-density seed cultures and special microbial fermentations, where conventional oil-based defoamers like soybean oil are inadequate. It is recommended for use in:

- Vaccine fermentation
- Lovastatin production
- Vitamin B12, ARA, DHA fermentations
- Other specialty microbial cultures

RECOMMENDED DOSAGE

The dosage depends on the specific fermentation system and foaming intensity. Typically, 1 kg of SiSiB® DF1031 can replace approximately 20 kg of soybean oil. It can be added directly into the fermentation tank.

Optimal levels should be determined through laboratory testing to achieve the best results.

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PACKING

SiSiB® DF1031 is supplied in 25Kg / 200Kg drums, 1000 Kg IBC container.

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

Stored in a dry and ventilated environment, SiSiB® DF1031 has a shelf life of one year. 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.

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