

# BIO-SIL

## Antifoams & Emulsions

### BIO-SIL YFA/1000

Foodgrade Anti-foam Dispersion

## TECHNICAL DATA SHEET

Rev.5 Date: 19/08/2022

### PRODUCT DESCRIPTION

BIO-SIL YFA/1000 is a 100% active vegetable oil based anti-foam concentrate, specifically formulated for antifoaming and de-foaming a wide range of aqueous system. Particularly suited for use in yeast or other microbial fermentation systems, YFA/1000 is fully autoclavable and shows no negative effect on microbial growth levels. BIO-SIL YFA/1000 is effective at low concentrations and has the added benefit of being silicone free.

### COMMON AREAS OF USE

- Yeast propagation
- Bacterial fermentation
- Alcohol fermentation processes
- Waste water treatment
- Pesticide formulations
- Chemical distillation
- Paper manufacturing
- Water based systems

### TYPICAL SPECIFICATIONS

Appearance	Amber oily liquid
Active Silicone Solids [%]	97-98
*Specific Gravity [@20°C]	0.93
Packaging	20Kg Pail 180Kg Drum 900Kg Tote

\*Typical product data values should not be used as specifications

### CERTIFICATION & COMPLIANCES

BIO-SIL YFA/1000 is certified Halaal. Produced under ISO 9001 and ISO FSSC22000 management systems.

Complies with FDA Code of Federal regulations Title 21 Section 173.340 – Secondary direct food additive used as defoaming agents for the processing of beet sugar and yeast.

### STARTING GUIDE

As a processing aid: For maximum de-foaming efficiency, pre-dilute BIO-SIL YFA/1000 with 3 to 5 parts of water or media momentarily before adding to the foaming system to facilitate rapid distribution into the system.

For end use: BIO-SIL YFA/1000 can be added directly from the original shipped container to the foaming system. Concentrations in the range of 0.05 to 0.1% have been determined as a good starting amount for most applications. If required, BIO-SIL AFD2000F can be heat sterilized before use either in its pure form or pre-diluted in water, or can be sterilized directly in the fermentation medium.

### PLEASE NOTE

- Testing before formulating should still be carried out as systems vary.
- Material Safety Data Sheets are available upon requests.
- The shelf life period without testing is 12 months from date of manufacture, if stored in the original unopened container at 4°C to 27°C.

LEGAL DISCLAIMER: Each user bears the full responsibility for making its own determination as to the suitability of Supplier material, products, services, recommendations or advice for its own particular purposes. Each user must identify and perform test and analysis sufficient to assure its finished parts will be safe and suitable for use under end-use conditions. Because actual use of products by the user is beyond the control of Supplier, such use is within the exclusive responsibility of the user, and supplier cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Further, no statement contained herein concerning a possible or suggested use of any material product, service or design is intended or should be construed to grant any license under any patent or other intellectual property right of Supplier or any of its subsidiaries or affiliated companies, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.