

BIO-SIL[®]

Antifoams & Emulsions

BIO-SIL DIA/10

ANTIFOAM/DEFOAMER

TECHNICAL DATA SHEET

Rev.1 Date: 22/03/2023

PRODUCT DESCRIPTION

BIO-SIL DIA/10 is an active emulsion of silica filled Polydimethylsiloxane which is specifically formulated for the control of foam during the de-inking of newsprint in the pulp making process as well as other paper related applications. BIO-SIL DIA/10 is effective at low dosages when added to surfactant solutions where the treatment of foam is critical.

COMPLIANCE

Compliant with the FDA Code of Federal Regulation Title 21 section 176.210 (indirect food additives used as defoaming agents in the manufacture of paper and paperboard).

COMMON AREAS OF USE

- De-inking tanks in paper manufacturing
- Pulp making effluent water treatment

USAGE GUIDE

For maximum efficiency, pre-dilute BIO-SIL DIA/10 with 3 to 5 parts of water momentarily before adding to the foaming system. For effective dilution, do not add the BIO-SIL DIA/10 to the water but rather vice versa. Alternatively, BIO-SIL DIA/10 can be administered directly into the foaming system with a metered pump, as it will efficiently disperse with minimum agitation.

For end use:

BIO-SIL DIA/10 emulsions can be added directly from the original shipped container to the foaming system.

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.

Concentrations in the range of 0.1 to 0.2% have been determined as a good starting point.

Please note - Testing before formulating should still be carried out as systems vary.

TYPICAL PROPERTIES

Appearance	Off white to beige
*Specific Gravity [@ 20°C]	1.00
*Viscosity at 25°C [Mpas]	>500 < 1000
Packaging	25kg Containers
	200kg Drums
	1000kg Containers

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

Material Safety Data Sheets are available upon requests.

The warranty period without testing is 12 months from date of manufacture, if stored in the original unopened container at 4°C to 27°C. Mild agitation should be carried out if stored as the nature of any emulsion is to separate without agitation over extended periods of storage.