

BIO-SIL

Antifoams & Emulsions

BIO-SIL IGA/10

Industrial Grade Adhesive Anti-foam & Defoamer

TECHNICAL DATA SHEET

Rev.4 Date: 24/11/2016

PRODUCT DESCRIPTION

BIO-SIL IGA/10 is a 10% emulsion of Polydimethylsiloxane specifically formulated for the antifoaming and de-foaming of most water-based adhesive systems. BIO-SIL IGA/10 performs rapid, initial knock down and persistent hold down of foam generated by the addition of water, surfactant and agitation. This emulsion readily disperses into water-based systems with no effect to adhesion performance. BIO-SIL IGA/10 Contains built in pH buffer to be stable over a wide pH range.

TYPICAL PROPERTIES

Appearance	Off white to beige
Active Silicone Solids (%)	10
Specific Gravity (@ 20 °C)	1.01
Viscosity at 25 °C (Mpas)	>500<1500
Packaging	25kg Containers 200kg Drums 1000kg Containers

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

COMMON AREAS OF USE

- Water-based adhesive systems
- Chemical distillations

STARTING GUIDE

As a processing additive: For maximum de-foaming efficiency, pre-dilute BIO-SIL IGA/10 with 0.1 to 0.5 parts by weight of the total amount of water before adding to the foaming system. Do not add the BIO-SIL IGA/10 to the water but rather vice versa. In processing applications as an additive, BIO-SIL IGA/10 in concentrations of 10 to 500 ppm can be added.

For end use: BIO-SIL IGA/10 emulsion can be added directly from the original shipped container into the foaming system. A concentration in the range of 0.1 to 0.5% has been determined as a good starting amount for water-based adhesives.

PLEASE NOTE

- Testing before formulating should still be carried out as system's ingredients such as resins, solvents, polymers and total solids vary in formulations.
- Material Safety Data Sheets are available upon request
- 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.

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.