

# BIO-SIL

## Antifoams & Emulsions

### BIO-SIL IGI/10

Industrial Grade Ink Anti-foam & Defoamer

## TECHNICAL DATA SHEET

Rev.4 Date: 27/01/2016

### PRODUCT DESCRIPTION

BIO-SIL IGI/10 is a 10% emulsion of Polydimethylsiloxane specifically formulated for mild antifoaming and de-foaming of most water-based ink systems. BIO-SIL IGI/10 performs excellent knock down and hold down of all foam generated by addition of water and agitation to water-based ink systems. BIO-SIL IGI/10 rapidly disperses into water-based systems with low tendency to affect lay and gloss on the printed substrate.

### 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 ink and coating systems
- Printing press ink fountains
- Printing press ink pumps/agitation
- Waste water treatment
- Water based systems

### STARTING GUIDE

**As a processing additive:** For maximum de-foaming efficiency, pre-dilute BIO-SIL IGI/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 IGI/10 to the water but rather vice versa. In processing applications as an additive, BIO-SIL IGI/10 in concentrations of 10 to 500 ppm can be added.

**For end use:** BIO-SIL IGI/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 ink and coatings applications.

### PLEASE NOTE

- Testing before formulating should still be carried out as system's ingredients such as resins, solvents 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.