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TECHNICAL DATA SHEET

**Siltech® 2300**

High Efficiency Antifoam Compound

**DESCRIPTION**

**Siltech® 2300** is a 100% active, antifoam compound base with excellent durability, good knock down and good foam prevention properties. It is used as a foam control agent in many markets. It is extremely active and therefore has the potential to cause fisheyes in coatings, oiling, or other defects from improperly suspended silicone.

**PROPERTIES**

Appearance	White Translucent To Opaque Liquid
Viscosity (25°C)	1,500 cps
Solid Content	100 %

**USES AND APPLICATION**

**Siltech 2300** is a 100% active foam control agent for formulating highly effective antifoam emulsions.

**Siltech 2300** is effective at very low levels and shows excellent durability to repeated foam generation in aqueous systems. The recommended usage level is up to 0.1 wt% percent based on the formulation at the point in the process when foam is generated. It is preferred to add the antifoam before or while applying mixing or other shear forces.

**Siltech 2300** is used as a foam control agent in various industrial chemical formulations. This product is characteristically used as the only antifoaming active in strong foaming applications such as pulp and paper, laundry and other high-shear processes.

Uses for **Siltech 2300**:

- Leather finishing: foam control
- Pulp & Paper: Active in defoamers, knockdown enhancer, drainage aid
- Textile: Component of defoamers for knockdown and compatibilization.
- Automotive & household products: Foam control in laundry and other high foaming applications such as carpet cleaners
- Filled or pigmented paints
- Siltech 2300 is not generally recommended for clear coatings due to the risk of defects.
- Any non-aqueous industrial process used neat or diluted in solvent.

Key features and benefits:

- Highly effective antifoaming and de-foaming
- Much more effective vs. conventional coatings defoamers
- Easy to formulate into stable emulsions

**Siltech® 2300** is also designed to be an active component of water based defoamer formulations. The product needs to be emulsified into water or your foaming system to minimize the risk of undesired side effects and to provide quick knockdown of foam.

## **HOW TO USE**

For water-based systems, **Siltech®2300** should be used in a diluted emulsion form. The suggested emulsion preparation below is an example only, the stability of this emulsion has not been fully evaluated.

Suggested formulation:

15.0%	Siltech®2300
52.7%	Water I
30.0%	Water II
0.2 %	Thickening Agent e.g Carbopol 941
0.2%	NaOH 50%
1.8 %	Silsurf® B1112
0.1%	Biocide

Procedure:

1. Add Thickener to Water I and mix at 450 rpm until dispersed
2. Adjust pH to 6.5-7.5 using 50% NaOH
3. Add Silsurf® B1112 and mix for 5 minutes
4. Add Siltech 2300 slowly, mix at 450 rpm
5. Add Water II and Biocide

It is important to mix the product prior to use. Particle size of these emulsions is critical to performance. The amount of shear during step 4 is the main factor in affecting this particle size.

For non-aqueous systems, the product can be used neat, but is better used diluted in an appropriate carrier.

## **SAFETY**

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information.

## **STORAGE AND SHELF LIFE**

When stored in the original, unopened container between 10 and 40°C, **Siltech 2300** has a shelf life of 24 months from date of manufacture.

## **PACKAGING**

**Siltech 2300** is available in 20 Kg and 200 Kg containers.

## **LEGAL DISCLAIMER**

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. Siltech Corporation, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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