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TECHNICAL DATA SHEET

Silsurf® G8-I

Silicone Polyether

DESCRIPTION

Silsurf® G8-I is a high molecular weight water insoluble and alcohol soluble silicone polyether copolymer. It can be used as a wetting agent, surface tension depressant and compatibilizer in various industrial chemical formulations. It provides flow & leveling, and substrate wetting to solvent based formulations. Significant foam control in water based formulations occurs due to the high molecular weight and water insolubility of this product.

TYPICAL PROPERTIES

Appearance	Clear, light straw liquid
Colour, Gardner	1
Viscosity, Cps	400
Active Content, %	100
Water Solubility, 1%/10%	Insoluble/ Insoluble
IPA Solubility, 1%/10%	Soluble/ Soluble
Mineral Spirits, 1%/10%	Soluble/ Soluble
Mineral Oil, 1%/10%	Dispersible/ Insoluble
Xylene Solubility, 1%/10%	Soluble/ Soluble
Cyclomethicone, 1%/10%	Soluble/ Soluble
Silicone Fluid (350cps), 1%/10%	Dispersible/ Dispersible

APPLICATION & USES

Silsurf G8-I is used to reduce surface tension and as an emulsifier and wetting agent in various formulations. It is also suitable for various chemical formulations that required wetting, surface tension reduction and heat stability.

Silsurf G8-I is designed to be an active component of water based defoamer formulations. The product is expected to provide strong knockdown of foam and is characteristically used as the only antifoaming active in lightly foaming applications such as coatings, bottle filling, and windshield washer solutions.

Silsurf G8-I can also be used in conjunction with filled silicone antifoam compounds in more demanding foam applications such as pulp and paper, laundry, textiles, and agriculture. In these formulations **Silsurf G8-I** provides enhanced knockdown, improved formulation stability and compatibility, and moderate wetting.

Silsurf G8-I can be used as an additive for solvent based systems. It will improve flow, leveling and wetting and provide slip and release properties.

Some possible industrial uses for **Silsurf G8-I**:

- Leather finishing: lubricant, softness
- Pulp & Paper: Weak active in defoamers, knockdown enhancer
- Textile: Component of defoamers for knockdown and compatibilization
- Automotive & household products: shine, slip, anti-squeak, lubrication
- Coatings: Active in water based defoamers, flow & leveling agent in solvent systems

Some possible personal care uses for **Silsurf G8-I**:

- Oil based products such as lipsticks and some cosmetics where compatibilization and emmoliency can be improved.

Silsurf® G8-I is effective at very low levels and shows excellent compatibilities in most solvents. It is recommended that it be used between 0.1-2.0 wt % percent based on the total formulation. It can typically be added at any stage during the production process.

SHELF LIFE

When stored in the original, unopened containers between 10 and 40°C, **Silsurf G8-I** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silsurf G8-I is supplied in 20kg pails and 200kg drums.

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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