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Technical Data Sheet

DOWSIL™ FS 1265 Fluid

100% active fluorosilicone polymer

Features & Benefits

- Efficient and persistent antifoam
- Insoluble in chlorinated solvents
- Resistant to chemicals and oxidation
- Low surface tension
- High flash point

Applications

- Solvent antifoaming in the chemical and petroleum industries.
- Reclaiming of used chlorinated solvents after dry cleaning, solvent degreasing or solvent extraction operations.
- Suitable for foam control in solvent systems where conventional polydimethylsiloxane fluids are soluble and promote foam.
- Oil and gas separation.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test	Property	Unit	Result
	Appearance		Clear, colorless liquid
	Viscosity	mm^2/s	300, 1000, 10000
ASTM D1298-24	Specific gravity at 25°C (77°F)		
	300 mm^2/s		1.25
	1000 mm^2/s		1.27
	10000 mm^2/s		1.30
ASTM D1218-21	Refractive Index at 25°C (77°F)		
	300 mm^2/s		1.3797
	1000 mm^2/s		1.3802
	10000 mm^2/s		1.3809

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How to Use

DOWSIL™ FS 1265 Fluid (see Handling Precautions) can be used as supplied or diluted in one of the components of the foaming system.

In some applications, the defoamer can be used to limit foam height by the simple method of wiping onto an element of the processing equipment. For example a wiped-on application on the rim of processing vats prevents foam overflow by knocking down foam as it rises to the rim of the vat. In other applications, it is wiped on a screen that is then suspended over the surface of the foamer. Whenever the foam rises too high, it contacts the screen and is broken.

The usual method of use, however, is to add the defoamer directly into the liquid system.

It is usually best to predilute with an acceptable solvent, chosen from the following range:

- Acetone
- Cellosolve acetate
- Ethyl methyl ketone
- Isobutyl methyl ketone
- Trichlorofluoromethane (300 and 1000 mm^2/s only)

Choice of viscosity depends on the nature of the foaming solvent. As viscosity increases, solubility decreases, and hence antifoaming efficiency increases, however it becomes more difficult to disperse the fluid thoroughly. Thus the lowest viscosity grade consistent with good foam control should be chosen. The middle viscosity grade of 1,000 mm^2/s should be used for initial testing. Suggested starting concentration is 1–5 ppm.

Diluted solutions may show loss in performance if stored for more than 4 weeks.

Features	Advantages	Benefits
100% active fluorosilicone fluid	Non reactive	Safe, low contamination
Dispersable in ketones or cellosolve acetate	Can be easily diluted before use	Costs savings in chlorinated solvents foams
Low use levels (< 5 ppm)	Highly efficient	Cost savings
Insoluble in chlorinated hydrocarbons (dry cleaning agents)	Unique antifoam for these solvents	Quality of processing
Long storage life	Easy to store	Cost savings
High flash point	Low flammability	Safe to use

Handling Precautions

Caution: toxic vapours may be evolved from DOWSIL™ FS 1265 Fluid, if exposed to air at temperatures above 150°C (302°F). Provide adequate ventilation if temperatures are likely to exceed this point. The fluid is essentially non toxic except when heated to a point where decomposition begins.

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

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Usable Life and Storage

When stored at or below 40°C (104°F) in the original unopened containers, this product has a usable life of 48 months from the date of production.

Packaging Information

This product is available in a range of packages including:

550 lb drums, 25 kg pails, 5 kg and 1 kg small packs and 250 cc samples.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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