

Wetting agent

Sinnosil[®] OF-8010



Product introduction

Suitable for water-based coatings, printing inks, and varnishes, this silicone surfactant strongly reduces the surface tension of the system and significantly improves substrate wetting ability. It does not increase surface slipperiness. OF-8010 has little or no foam stabilizing effect and does not reduce repaintability. It performs outstandingly in coating water-based emulsions on difficult substrates such as PVC, PE, etc.

Technical Specifications

Chemical Composition	Silicone-modified nonionic surfactant
Active Content	96% min
Appearance	Colorless transparent liquid
PH Value	6.0-7.5 (1% aq.)
Cloud Point (0.1wt%)	<10°C
Specific Gravity (25°C)	~0.99 g/cm ³
Flash Point	>100°C
Viscosity (25°C)	20 mPa·s

Application Guidelines

Coatings and Printing Inks

Used in water-based and oil-based systems to effectively reduce the static surface tension of the material system. Adding 0.02% can reduce the surface tension of the system to 21.3 mN/m (0.1% aq.). This additive does not increase surface slipperiness. For higher surface slipperiness, OF-833 is recommended as an additional additive.

Application Method

Can be added directly or in the form of a diluent.

Solubility

Solubility				
Mutual Solubility Ratio	Water	Isopropyl Alcohol	Polyethylene Glycol	Xylene
1:10	Dispersible	Soluble	Soluble	Soluble
Surface Tension of Aqueous Solutions at Different Concentrations (mN/m)				
0.01%	0.02%	0.05%	0.07%	0.1%
21.8	21.3	21.3	21.3	21.3

Usage Limitations

This product has not been tested nor explicitly declared for use in medical, pharmaceutical, or food applications.

Packaging and Storage

Packaged in 25kg, 200kg plastic barrels or IBC containers (net weight 1 ton).

The product should be stored in its unopened original container at 5-35°C or lower, indoors away from light, in a ventilated, cool, dry place, ensuring the barrel lid is tightly closed. The shelf life is 12 months from the batch number date.

Company Information

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The information provided in this Product Bulletin is believed to be accurate and reflective of the product's typical characteristics and potential applications. However, any usage suggestions provided are solely for reference and should not be construed as authorization to violate any domestic or international patents. It is the responsibility of user to conduct comprehensive testing under actual application conditions to verify the product's performance, compatibility, safety, and handling requirements.