



FF-316

Fluorinated Surfactant



Overview

FF-316 is an environmentally friendly fluorinated surfactant, suitable for a wide range of water-based systems. Applications include petroleum, coatings, inks, adhesives, cleaning agents, floor waxes, and polishes, anti-fog glass treatments, foaming agents, rust inhibitors, and concrete formulations. It effectively reduces surface tension, provides excellent wetting and penetration properties, improves leveling and flow, minimizes surface defects such as cratering, and enhances water, oil, and stain resistance. Additionally, FF-316 offers anti-fog, mold release, and foam control properties.

Physicochemical Properties

Appearance	Light yellow to brown liquid	Composition	Non-ionic fluorinated polymer
Active Content	50 %	Surface Tension	14~17mN/m (0.1% wt in water, 25°C)
Density	1.1~1.2 g/ml	Solvent	Ethylene glycol/water

Characteristics & Advantages

- **Strong Surface Tension Reduction:** Achieves extremely low surface tension with minimal dosage.
- **Superior Wetting and Penetration:** Fast leveling performance.
- **Excellent Resistance to Surface Defects:** Effectively prevents cratering, pinholes, and dents.
- **Enhanced Triple-Resistance Properties:** Provides water resistance, oil resistance, and stain resistance.
- **Anti-Fog Applications:** Can be used on glass surfaces for anti-fog properties.
- **Improved Cleaning Efficiency:** Enhances wetting and penetration, boosting cleaning performance in detergents.
- **Lubricant Durability:** Imparts corrosion resistance and smoothness to lubricants.
- **Solvent Control:** Suppresses evaporation of petroleum-based solvents.
- **Foam Control in Foaming Agents:** Offers foam uniformity, water repellency, stain resistance, and mold release properties.
- **Rust Prevention:** Suitable for inclusion in rust inhibitors for

metal surfaces.

- **Concrete Applications:** Improves penetration, foam uniformity, and separability in concrete formulations.

Dosage

Recommended Dosage: 0.005–0.1% of the total formulation.

Applications

Petroleum, coatings, inks, adhesives, cleaning agents, floor waxes and polishes, glass anti-fog treatments, foaming agents, rust inhibitors, and concrete.

Precautions & Storage

Store in a cool, well-ventilated area with tightly sealed containers. Under recommended storage conditions, the product has a shelf life of 3 years.

Safety

Refer to the MSDS

Packaging

5KG、20KG/Barrel