

Capstone™ FS-3100

Fluorosurfactant

Technical Information

Description

Capstone™ FS-3100 is a nonionic fluorosurfactant that provides exceptionally low surface tension in aqueous- or solvent-based products, enabling better wetting, spreading, leveling, and other beneficial properties. FS-3100 does not contain any intentionally-added VOC or APEO, and is compatible with additives and resins of any ionic class.

Even at very low concentrations, FS-3100 can deliver tremendous wetting power. FS-3100 is stable in acidic, basic, brine, and hard water environments—making it easy to formulate into a variety of systems. The absence of solvent makes FS-3100 a particularly effective additive to organic polymers, as well as solvent-based paints and coatings. It is also effective as an additive in cleaning products, paints, coatings, adhesives, and films.

Applications

Water-Based Floor Care (Finishes, Waxes, and Polishes)

- Provides wetting and leveling
- Good re-wet characteristics in multi-coat applications
- Reduces cratering and provides faster spreading
- Compatible with hydrocarbon surfactants
- Suggested use rates are 0.01–0.05% active ingredient (A.I.)

Concentrated Cleaning Solutions

- Reduces surface tension and provides excellent wetting to achieve cleanability
- Provides improved wetting and penetration, especially with difficult to wet soils
- Suggested use rates are 0.01–0.1% A.I.

Electronics

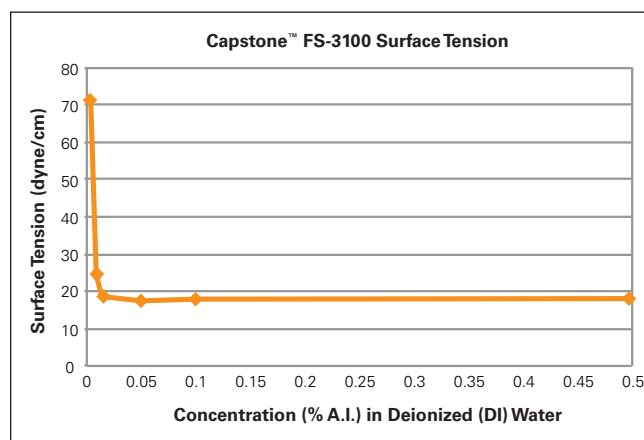
- Zinc battery scale inhibitor
- Low foamer in photoresist strippers

Typical Properties

Appearance	Clear, viscous, pale yellow to light amber liquid
Specific Gravity	1.35–1.39
Stability	Freeze-thaw stable. Stable in brine and aggressive media. Mix well before use.
Composition	100% solids
Shelf Life	5 years
Flash Point	Does not flash

Performance

Surface Tension



Foaming

- Low foamer

Ross-Miles Foam Volume (mL) at 25 °C (77 °F) at 0.1% Active Ingredient (A.I.)

	Initial	5 min	10 min	15 min
DI Water	62	61	60	58
10% NaCl	33	30	29	29

Additional Applications

Paints and Coatings

- Compatible with most aqueous- or solvent-based paints
- Will migrate and become part of the cured paint in 2K polyurethane paints
- Can be used in UV coating applications

Aqueous-Based Paints and Inks

- Excellent wetting and leveling, reduced orange peel effect, extend the open time
- Compatible with most aqueous-based paints
- Improved wetting in wood coatings
- Suggested use rates are 0.01–0.1% A.I. in aqueous-based paints

Handling

- Warm to 35 °C (95 °F) and mix well before use
 - Especially when taking a partial sample from the container
 - For drum size containers, thorough agitation, including use of a drum agitator with low speed mixing, may be necessary to ensure consistent percentage solids throughout

Capstone™ Repellents and Surfactants

- Deliver maximum performance
- Regulatory and stewardship information is available upon request
- Are listed on TSCA inventory

Package Sizes

Drum–400 lb (181.6 kg), Pail–50 lb (22.7 kg), Nalgene bottle–8 lb (3.632 kg)

For questions regarding technical data, commercial supply, and sampling:

Chemours Advanced Performance Materials

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