

Capstone™ FS-31

Fluorosurfactant

Technical Information

Description

Capstone™ FS-31 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-31 does not contain any intentionally-added VOC or APEO compounds, and is compatible with additives and resins of any ionic class.

Even at very low concentrations, FS-31 can deliver tremendous wetting power. FS-31 is stable in acidic, basic, brine, and hard water environments—making it easy to formulate into a variety of systems. FS-31 is 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.

Aqueous-Based Paints and Inks

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

Metals and Electronics

- Improved etching efficiency
- Effective plating bath aid
- Zinc battery scale inhibitor

Typical Properties

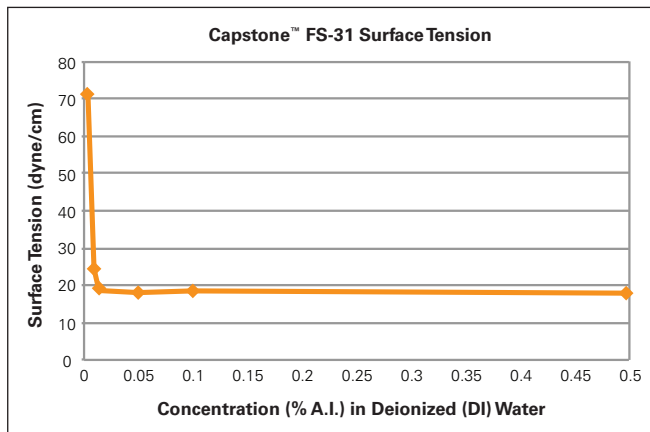
Appearance	Clear, colorless to pale yellow liquid
pH	6–8.5
Specific Gravity	1.1
Stability	Freeze-thaw stable. Stable in brine and aggressive media. Mix well before use.
Composition	25% solids in water
Shelf Life	5 years
Flash Point	Does not flash

Handling

- Mix well before use.
- This product might undergo phase separation when stored for extended period above 30 °C (86 °F). Product may be reconstituted by shaking or mixing of container below 40 °C (104 °F).

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

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-40 lb (18.16 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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