

Capstone™ FS-34

Fluorosurfactant

Technical Information

Description

Capstone™ FS-34 is a general-purpose, water-soluble, ethoxylated, nonionic fluorosurfactant that modifies surface energies at very low concentrations. FS-34 does not contain any intentionally-added VOC or APEO compounds, is nonflammable, and is compatible with additives and resins of any ionic class.

FS-34 can provide tremendous wetting and leveling properties, even at low concentrations, because of its good stability across a broad pH range. It is stable in acidic, basic, brine, and hard water environments—making it easy to formulate into a variety of systems.

FS-34 is effective as a plating bath aid by reducing drag-out from bath applications. Additionally, it can be used in coatings to reduce surface defects and lower surface tension in many types of cleaning formulations.

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 0.01–0.02% 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

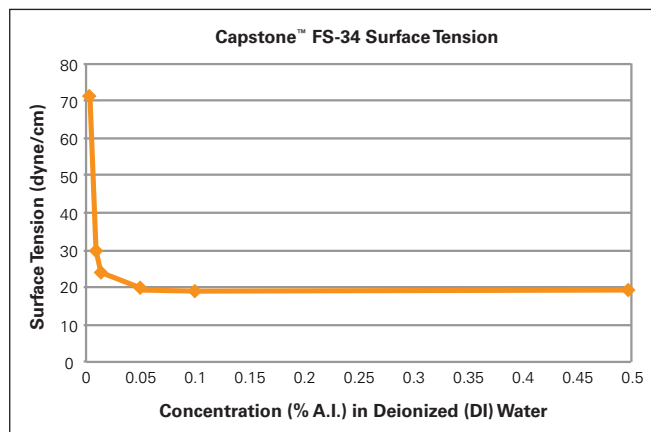
- Excellent wetting, leveling, reduced orange peel effect, extends open-time
- Suggested use rates are 0.01–0.1% A.I. in aqueous-based paints

Typical Properties

Appearance	Clear yellow to amber liquid
pH	5.5–7.5
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

Performance

Surface Tension



Foaming

- Moderate to high 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	153	143	143	140
10% NaCl	121	121	120	120

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:

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