

CHEMGUARD S-760P High Performance Anionic Fluorosurfactant

Description

CHEMGUARD S-760P High Performance Anionic Fluorosurfactant is a phosphate ester type fluorosurfactant. It provides surface tensions as low as 17 dyn/cm in water at very low temperatures.

CHEMGUARD S-760P imparts enhanced wetting, spreading, leveling, and flow control properties to various types of water-based coatings. It is therefore excellent for architectural paints and stains, concrete coatings, industrial coatings, and aqueous hydrocarbon surfactant solutions.

CHEMGUARD S-760P has excellent dynamic surface tension properties which allow the rapid attainment of low equilibrium surface tensions. It is low foaming and can provide improved dirt pick-up resistance to exterior paints and interior low gloss paints, sealers, and stains.

Features

CHEMGUARD S-760P High Performance Anionic Fluorosurfactant offers the following features:

- Delivers low surface tension at low concentrations
- Effective at wetting difficult to coat surfaces
- Minimizes surface defects such as cratering and fisheyes
- Imparts excellent anti-blocking characteristics
- Provides oil repellency to water-based stains
- Low foaming

Typical Properties

Property	Description
Appearance	Clear, colorless liquid
Ionic Character	Anionic
Percent Actives	35%
Diluent Composition	Water, isopropyl alcohol
Density 25 °C (77 °F).....	1.1 g/ml
pH.....	7.0 - 8.5
Flash Point.....	25 °C (77 °F) (Pensky-Martens, closed cup)
Freezing Point	-20 °C (-4 °F)
Refractive Index at 25 °C (77 °F).....	1.3500 - 1.3580
Viscosity	11.0 cP
Aqueous Surface Tension in Deionized Water, 25 °C (77 °F)	
Actives.....	0.001% 0.01% 0.1%
dyn/cm (mN/m)	34 20 17

Note: Typical Properties are not for specification purposes.

Application

CHEMGUARD S-760P High Performance Anionic Fluorosurfactant is a dilute solution composed of 35% active fluorosurfactant in a water and solvent-miscible diluent. Typical uses include leveling and oil repellency for floor polishes, paints and coatings, adhesives, inks, waxes, caulks, and wood stains.

CHEMGUARD S-760P can minimize common surface defects in paints and coatings such as fisheyes, orange peel effects, and cratering. It is very effective in improving anti-blocking for the new low volatile organic compound (VOC) paints in both semi-gloss and high-gloss formulas.

The application of CHEMGUARD S-760P is generally employed when typical hydrocarbon surfactants are inadequate. Fluorosurfactants, such as CHEMGUARD S-760P, are more chemically stable than typical hydrocarbon surfactants, particularly in the presence of acids, alkalies, or heat

Recommended application rates depend on the formulation makeup, but typical levels of 0.01% to 0.20% are common. To determine the correct application rate level, screen several ranges of concentration to achieve the desired effect on the surface tension and wetting action.

Solubility

CHEMGUARD S-760P High Performance Anionic Fluorosurfactant is soluble in water and most organic solvents.

Storage and Shelf Life

Store the CHEMGUARD S-760P High Performance Anionic Fluorosurfactant between 10 °C and 50 °C (50 °F and 122 °F). If the agent is frozen or if solids separate, warm the agent to room temperature before use. The properties and performance of CHEMGUARD S-760P are not affected by freezing or thawing. Shelf life is two years if the agent is stored and tightly sealed in the original container at temperatures below 50 °C (122 °F).

Health and Safety

CHEMGUARD S-760P High Performance Anionic Fluorosurfactant is not recommended for use in applications involving repeated exposure to skin contact, inhalation, or ingestion.

CHEMGUARD fluorosurfactants are based on the telomer synthesis process and are composed of chains of six fluorinated carbons. The telomer process produces no perfluorooctane sulfonate (PFOS), and C6 materials do not break down to yield perfluorooctanoic acid (PFOA).

Refer to the safety data sheet (SDS), available at www.chemguard.com, for recommended disposal, handling, and protection information.

Note: The converted values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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