



CHEMGUARD S-761P-100

High Performance Anionic Fluorosurfactant

Product Description

Chemguard S-761P-100 is a short-chain perfluoro-based anionic fluorosurfactant of the phosphate ester type. It provides surface tensions as low as 16 dynes/cm in water at very low concentrations. It also has excellent dynamic surface tension properties, allowing for rapid attainment of low equilibrium surface tensions. Chemguard S-761P-100 imparts excellent wetting, spreading, leveling, and flow control properties on various types of solvent-based and 100% solids coatings for architectural paints and stains, concrete coatings, and inks.

Attributes

- Provides low surface tension at low concentrations
- Excellent for wetting contaminated or difficult to coat surfaces
- Minimizes surface defects such as cratering and fisheyes
- Excellent as an anti-smearing ink additive
- Provides oil repellency to solvent-based stains
- Ideal replacement for Dupont *Zonyl UR and Capstone FS-66
- Composed of short chain C-6 perfluoro telomer

Typical Properties¹

Appearance	White waxy solid
Ionic Character	Anionic
Percent Solids (Actives)	100%
Density (25°C)	1.5 g/ml
Flash Point (Pensky-Martens, closed cup)	>100°C
pH	3-7

¹Not for specification purposes.

Typical Applications

Typical uses include Wetting, leveling and oil repellency for floor polishes, paints and coatings, adhesives, inks, waxes, caulks, and wood stains. Chemguard S-761P-100 can minimize common surface defects in paints and coatings such as fisheyes, orange peel effects and cratering.

Chemguard S-761P-100 is also very effective in improving anti-blocking for the new low/no VOC paints in both semi-gloss and high gloss formulas. It makes an effective internal and external mold release for synthetic resin, plastic and metal molding and external cast film release.

Recommended application rates depend on the formulation makeup but typical levels of 0.01% to 0.2% are common. The ideal method for determining the proper level is to screen several ranges of concentrations to achieve the desired effect on the surface tension and wetting action.

Applications of Chemguard S-761P-100 are generally those in which typical hydrocarbon surfactants are found to be inadequate.

Fluorosurfactants such as Chemguard S-761P-100 are much more chemically stable than typical hydrocarbon surfactants, particularly in the presence of acids, alkalis, or heat.

Solubility

Chemguard S-761P-100 is insoluble in water and partially soluble in polar solvents. The chart below is an example of the solubility of S-761P-100 in many solvent systems. Chemguard can assist in determining solubility in any system.

Solvent	Solubility of Chemguard S-761P-100
Distilled Water	Negligible
Isopropanol	>2%
Acetone	>2%
Methyl Alcohol	>2%
Hydrocarbon solvents	Insoluble

All values measured at 25°C

Storage and Shelf Life

Chemguard S-761P-100 should be stored between 10°C and 50°C.

Shelf life is at least five years if stored tightly sealed in the original container at temperatures below 50°C (151°F).

Availability

Chemguard S-761P-100 is available in 1 oz samples, and 40 lb. pails.

Health and Safety

Chemguard does not recommend this product for use in applications involving repeated exposure to skin contact, inhalation, or ingestion. Chemguard S-761P-100 can not be used for consumer spray applications.

Chemguard fluorosurfactants are based on telomer synthesis. No PFOS, no PFOA, and no derivatives that decompose to them are used in the manufacturing process. Chemguard S-761P-100 is composed of predominately six carbon (greater than 98%) and shorter perfluoro chains with no known pathway of decomposing to PFOS or PFOA.

Please refer to the material safety data sheet (MSDS) for recommended disposal, handling, and protection information.

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