

Technical Bulletin

DYNAX DX1030 FLUOROSURFACTANT

Dynax DX1030 is a C6 fluorotelomer-based surfactant. DX1030, an anionic fluorosurfactant, can lower the surface tension of aqueous solutions below 20 dynes/cm at very low concentrations. DX1030 has been designed to provide excellent spreading, wetting and leveling performance to water-based systems in such applications as fire-fighting foam (AFFF), coating and paint formulations, inks, etc.

Typical Properties¹

Appearance	Clear to slightly yellow liquid
Ionic Character	Anionic
Composition	45% Actives 10-20% Hexylene glycol, 1.7% Magnesium sulfate heptahydrate Remainder: water
Density	1.23 g/ml (@25°C)
Viscosity	40-60 cP's (@25°C by Brookfield DV-E spindle #3, speed 50)
Flammability	Non Flammable
pH	6.5 - 7.5
Solubility	DX1030 can be diluted directly in water.
Stability	At least one year if stored in original container at temperatures not exceeding 50°C (122°F).
Storage Stability	DX1030 should be stored at temperatures above 10°C. If frozen or a solid phase separates out of the product, warm the product to room temperature and mix it well before use. Freezing and thawing will not affect the properties of the product or its performance.

¹Not for specifications

Surface Tension Data

% Actives in distilled water	Surface Tension (dyne/cm)
0.1	19.3
0.01	32.7
0.001	47.5

By Wilhelmy Plate Method: KRÜSS Force Tensiometer K100C

Product Safety

DX1030, a C6 fluorotelomer surfactant, cannot degrade into PFOS or PFOA.

DX1030 meets the objectives of the US EPA 2010/15 PFOA Stewardship Program.

DX1030 is a minimal irritant on skin.

It is a minimal irritant on eyes.

The acute oral LD₅₀ for albino rats is greater than 5,000 mg/kg.

Precautions and First Aid

DX1030 should be handled with good industrial precautions. Safety goggles and rubber gloves, as well as protective clothing suitable to avoid skin contact should be worn. In case of contact with eyes, flush eyes with plenty of water and consult a physician. In case of skin contact, wash skin with plenty of water and soap.

Important Notice to Purchaser: All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof is not guaranteed. Since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability in connection therewith.
