

Technical Bulletin

DYNAX DX2200 FLUROSURFACTANT

Dynax DX2200 is a highly effective, nonionic fluorosurfactant. It can lower the surface tension of aqueous solutions down to 19 dynes/cm at very low concentrations. DX2200 has been designed to provide spreading, leveling, and wetting performance to water-based systems in such applications as fire-fighting foams, e.g., AFFF (Aqueous Film Forming Foam), coating and paint formulations, inks, etc. DX2200 imparts exceptional foam stability to protein-based fire-fighting foams, such as FP (Fluoroprotein) and FFFP (Film Forming Fluoroprotein).

Typical Properties¹

Appearance	Clear to slightly hazy liquid
Ionic Character	Nonionic
Composition	40% Actives 15% t-Butyl alcohol 45% Water
Density (@ 25°C)	1.12 g/ml
Flash Point	21°C (PM Closed Cup)
pH	4 - 6
Viscosity (@25°C)	60 cP's (Brookfield Spindle #21 @20rpm)
Solubility	DX2200 can be diluted directly with water.
Stability	At least one year if stored in original containers at temperatures not exceeding 50°C (122°F)
Storage	DX2200 should be stored at temperatures above 0°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	19.4
0.01	26.2
0.001	32.9

Product Safety

DX2200 is not derived from PFOS (Perfluorooctyl Sulfonate) or from PFOA (Perfluorooctanoic Acid). DX2200 does not degrade into PFOS or PFOA.

DX2200 is minimal irritant on skin; it is a moderate irritant on eyes. The acute oral LD₅₀ for albino rats is greater than 5,000 mg/kg.

Precautions and First Aid

DX2200 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.
