

Technical Bulletin

DYNAX DX5011 FLUORO-CHEMICAL FOAM STABILIZER

DX5011 is an anionic fluorochemical foam stabilizer, miscible with water in all proportions. DX5011 is designed to be used in synthetic and protein-based alcohol-resistant fire-fighting foam agents, such as AR-AFFF (Alcohol-Resistant Aqueous Film Forming Foam) and AR-FFFP (Alcohol-Resistant Film Forming Fluoroprotein). DX5011 imparts to the alcohol-resistant foam agents exceptional foam stability against fires of polar solvents, such as alcohols, ketones and ethers. DX5011 is especially recommended for the development of low viscosity alcohol-resistant foam agents, such as 3x3, 1x3 and 1x1 AR-AFFF and AR-FFFP agents.

Typical Properties¹

Appearance	Amber liquid
Ionic Character	Anionic
Composition	43 - 45% actives 5-6% Tripropylene Glycol Methyl Ether Remainder: water
Density	1.14 g/ml (@25°C)
Viscosity	1500-2000 cP's (Brookfield DV-E spindle #3, speed 20, temp. 25°C)
Flammability	Non Flammable
pH	7 - 8
Solubility	DX5011 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	DX5011 should be stored at temperatures above 5°C. If frozen or a solid phase separates out, 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 (dynes/cm)
0.1	35.8
0.01	49.8

By Wilhelmy Plate Method: KRÜSS Force Tensiometer K100C

Product Safety

DX5011 is not derived from PFOS (Perfluorooctyl Sulfonate) or from PFOA (Perfluorooctanoic Acid). DX5011 does not degrade into PFOS or PFOA. DX5011 meets the objectives of the US EPA 2010/15 PFOA Stewardship Program.

DX5011 is not an 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

DX5011 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 are 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.
