

SOLBERG® 3% MIL-SPEC FOAM



INTRODUCTION

The changing landscape of the industry has resulted in many of the fire test standards evolving to include firefighting foam concentrates being developed without intentionally added per- and polyfluoroalkyl substances (PFAS) sometimes referred to as “fluorine-free”. Naval Sea Systems Command has controlled the aqueous film forming foam (AFFF) specification (MIL-F-24385) for the United States Military since its inception in 1969. On January 6, 2023, a new specification for land-based, fresh water applications (MIL-PRF-32725 (I1)) for fluorine-free foams was released as the next fire standard to include this type of agent.

WHO WE ARE

With manufacturing locations in Green Bay, WI; Mieres, Spain; and St. Mary’s, Australia, Perimeter Solutions is able to provide foam concentrates around the world. We are developing new fluorine-free products every day, making us the world leader in fluorine-free foam technology and first in class listings and approvals.

PERFORMANCE

With the release of our first fluorine-free foam in the early 2000s, our fourth generation of fluorine-free products are currently on the market. We are now proud to announce the launch of SOLBERG® 3% MIL-SPEC SFFF. SOLBERG 3% MIL-SPEC SFFF meets or exceeds many of the performance testing requirements of MIL-PRF-32725 (I1). Some products are not compatible with high levels of salts, which can affect a foam’s performance – but not ours. SOLBERG 3% MIL-SPEC SFFF has been internally tested and confirmed compatible with fresh, salt and brackish water. In addition, SOLBERG 3% MIL-SPEC SFFF concentrate is specifically designed for fast knockdown and extinguishment of gasoline and Jet A fuel spill fires as identified in MIL-PRF-32725 (I1), easily exceeding expansion ratio, burn back, and 25% drain-time performance requirements.

PRODUCTION CAPABILITIES

With production at three locations, Perimeter Solutions can make 30,000 gallons of foam per day. We are a reliable, proven partner of the military, having supplied the Air Force with foam for their Aircraft Rescue Firefighting foam transition from 2015 to 2016. Perimeter Solutions has delivered foam to 183 locations around the world.

QUALIFIED PRODUCTS LIST

Airport authorities and other government agencies that are required to use MIL-SPEC products can only use firefighting foams that are included on the Department of Defense Qualified Products List (QPL). To view our products on the QPL, follow the appropriate link to the product you need:

Aqueous Film Forming Foam (AFFF) QPL

<https://qpldocs.dla.mil/search/parts.aspx?qpl=1910¶m=QPL-24385&type=256>

Synthetic Fluorine-Free Foam (SFFF) QPL

<https://qpldocs.dla.mil/search/parts.aspx?qpl=4513¶m=QPL-32725&type=256>

SPECIFICATION COMPARISON

Below is a comparison between the fluorinated and fluorine-free 3% MIL-SPEC fire suppression agent protocols.

PHYSICAL PROPERTIES	MIL-F-24385	MIL-PRF-32725 (I1)
Refractive Index	> 1.3630	> 1.3600
Viscosity Max, 5C	20 cSt	30 cSt
pH	7.0 - 8.5	6.5 - 9.5
Foam Expansion	> 5.0	> 7.0
Drain Time, 25%	> 2:30	> 3:30
COD Max, mg/L	1000K	900K
BOD/COD 20 Max, mg	> 0.65	> 0.65
Cross Compatibility	Yes	No
Dry Chemical Compatibility	Yes	Yes
Corrosion Testing	Yes	Yes
10-Day 65°C Stability Test	Yes	Yes
Precipitation, Max %	0.05%	0.10%
Aquatic Toxicity, LC ₅₀	< 500 mg/L	< 30 mg/L

SOLBERG 3% MIL-SPEC FOAM

FOAM PROPERTIES	
Dilution Rate	3%
Low Expansion Foam (UNI-86)	
Foam Expansion	7 - 10
Drain Time	5 - 10 minutes
Low Expansion Foam (NRL Nozzle)	
Foam Expansion	7 - 10
Drain Time	7 - 12 minutes
TYPICAL PROPERTIES	
Specific Gravity, g/cm ³	1.04 - 1.08
pH @ 68°F	7.0 - 8.0
Viscosity	11 - 17 cSt
Refractive Index	1.370 - 1.410



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