

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 delivered 418,000 gallons 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



PERIMETER SOLUTIONS CONTACT:

David Phoenix

david.phoenix@perimeter-solutions.com

Sales Director – Asia Pacific



Trusted. Solutions That Save.

FOR MORE INFORMATION

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:

www.Perimeter-Solutions.com

UNITED STATES

1520 Brookfield Avenue
Green Bay, WI 54313
Tel: +1 (920) 593-9445
salesfoamusa@perimeter-solutions.com

EMEA

Polígono Industrial de Baiña, Parcela 23
33682 Baiña-Mieres (Asturias) – Spain
Tel: +34 985 24 29 45
salesfoamea@perimeter-solutions.com

ASIA PACIFIC

3 Charles Street
St Marys NSW 2760 – Australia
Tel: +61 2 9673 5300
salesfoamapac@perimeter-solutions.com

perimeter-solutions.com

NOTICE PERIMETER SOLUTIONS MAKES NO REPRESENTATIONS OR WARRANTIES AS TO THE COMPLETENESS OR ACCURACY OF THE INFORMATION INCLUDED HEREIN. THE INFORMATION CONTAINED HEREIN IS NOT INTENDED TO PROVIDE REGULATORY, LEGAL OR EXPERT ADVICE RELATING TO THE PRODUCTS, ITS APPLICATION OR USES. NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION TO USE ANY PRODUCT, PROCESS, EQUIPMENT OR FORMULATION IN CONFLICT WITH ANY INDUSTRIAL PROPERTY OR INTELLECTUAL PROPERTY RIGHTS, AND PERIMETER SOLUTIONS MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, THAT THE USE THEREOF WILL NOT INFRINGE ON ANY INDUSTRIAL PROPERTY OR INTELLECTUAL PROPERTY RIGHTS. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN.

© 2023 PERIMETER SOLUTIONS LP. ALL RIGHTS RESERVED. P TRIANGLE DESIGN, PERIMETER SOLUTIONS, SOLBERG, AND QUALITY PRODUCTS. EXCEPTIONAL RESPONSE, ARE TRADEMARKS OF PERIMETER SOLUTIONS, LP. ALL OTHER TRADEMARKS ARE THE PROPERTY OF THEIR RESPECTIVE OWNER.

PSS-2022099-4-APAC