

SOLBERG® VERSAGARD™ 1x3

MULTIPURPOSE 1x3 FLUORINE-FREE FOAM CONCENTRATE



FAST FACTS

- New-Generation 1x3 Fluorine-Free Alcohol Resistant (AR) concentrate
- UL 162 Listed
- High performance in EN-1568:2018 certification
- IMO MSC.1/Circ. 1312 certification
- GreenScreen Certified Silver®
- LASTFIRE
- Biodegradable and non-persistent
- Fresh, sea and brackish water compatible
- Fast knockdown & extinguishing performance
- Excellent burnback performance
- Compatible with multiple equipment systems
- Contains no siloxanes

DESCRIPTION

SOLBERG® VERSAGARD™ 1x3 (patent pending) multipurpose fluorine-free foam concentrate is a state-of-the-art AR fluorine-free pseudoplastic foam technology. Non-persistent, siloxane-free, with no intentionally added PFAS chemicals, SOLBERG VERSAGARD 1x3 is designed for extinguishing and securing both Class B (hydrocarbon fuel and polar solvent fuel) and deep-seated Class A fires. SOLBERG VERSAGARD 1x3 is a combination of hydrocarbon surfactants and additives producing excellent foam expansion, product stability, vapour sealing, extinguishment and burnback properties for both shallow and fuel in-depth fires, using fresh, sea or brackish water. This fluorine-free concentrate has been engineered to produce a stable and long-draining foam blanket, whilst ensuring a concentrate with improved storage, handling, proportioning and long-term stability.

APPLICATIONS

SOLBERG VERSAGARD 1x3 is designed to generate stable foams with high fluidity and slow drainage. This novel technology allows SOLBERG VERSAGARD to perform similarly to fluorinated products. It may be used with low expansion foam equipment (nozzles and monitors) at 1% for hydrocarbons and low, medium & high-expansion foam discharge devices at 3% to fight fires involving Class B hydrocarbon and polar solvent fuel fires. It is fully compatible with standard firefighting equipment, including in-line inductors, self-inducting nozzles, fire truck pumps, bladder tanks, pump skids, balanced pressure systems, water motor-driven proportioners, and more. The viscosity of this product can increase in case of very low temperatures and the use of special equipment could be recommended. In addition to its excellent foamability and bubble stability, SOLBERG VERSAGARD 1x3 has excellent wetting ability, making it an effective tool for the extinguishment of Class A fuel fires.



CERTIFICATIONS

SOLBERG VERSAGARD 1x3 has been the subject of multiple large-scale fire testing programs. Results include:

- Achieved high rating and certified in European Standard EN-1568:2018 part 3 & 4 on all fuels with fresh and sea water – IA/IB & IA/IA (acetone/IPA)
- Passed and certified to European Standard EN-1568:2018 part 1 & 2 – for use at 3% with medium- and high-expansion foam discharge devices
- International Maritime Organization certification MSC.1/Circ. 1312
- LASTFIRE batch-certified with 3 nozzles (semi, asp, system)
- UL 162 Listed
- Tested and certified to ICAO Level B – high performance on aviation fuels
- GESIP Listed/Qualified at lowest application rates on Hydrocarbon and Methanol/Alcohols (Water Miscible) Fuels.
- GreenScreen Certified Silver®



SOLBERG VERSAGARD 1x3
is GreenScreen Certified®
at the Silver level.

USAGE RATES

The proportioning rate is 1% on hydrocarbons (3% for excellent results in medium and high expansion) and 3% on polar solvents. It can be used at 0.5% on Class A fuel fires.

TYPICAL PROPERTIES	
Specific Gravity, g/cm ³	1.030–1.070
pH @ 20°C	6.0–8.0
Viscosity, mPa.s/cPs at 375 s ⁻¹ * @ 20°C	≤230
Viscosity, mPa.s/cPs, 20°C†	
Viscosity (#4 @ 30 rpm)	2800–4800
Viscosity (#4 @ 60 rpm)	1800–2900
Freezing Point, °C	-10°C
Lowest Temperature for Use, °C	-5°C

* Brookfield cone/plate

† Brookfield LVT

FOAM PROPERTIES		
Dilution Rate	1%	3%
Surface tens. at 20°C, mN/m (Demineralised water)	<25	<25
Low Expansion Foam (UNI-86)		
Foam Expansion Index	> 5	> 7

INSPECTION

SOLBERG VERSAGARD 1x3 or a premix solution should be tested annually per National Fire protection Association (NFPA 11) and EN-13565-2 standards. A sample of the foam sent to the manufacturer or qualified third party lab to confirm physical properties and foam quality meet the specifications of the foam as originally supplied as per the requirements of NFPA 11 and EN-13565-2.

PACKAGING

The product is supplied in 20 or 25 L PE prismatic containers, 200 L PE cylindrical drums, and 1,000 L IBC containers.

STORAGE/MATERIAL COMPATIBILITY

SOLBERG VERSAGARD 1x3 should be stored between -5°C and +50°C, preferably in the original containers. The foam concentrate has been successfully tested and verified under multiple temperature conditioning stability cycles at -30 °C to +60 °C, with no adverse effects. SOLBERG VERSAGARD 1x3 is not affected by freeze–thaw conditions and will return to the original, effective state upon thawing without any degradation in performance. SOLBERG VERSAGARD 1x3 is compatible with multiple materials of construction found in firefighting equipment. Do not mix with other foam concentrates without a previous verification of compatibility. For questions about material of construction compatibility consult Perimeter Solutions technical services.

The foam concentrate shelf life is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature fluctuation, evaporation, dilution, and contamination by foreign materials. When stored in original containers or in manufacturer-recommended equipment within the specified temperature range SOLBERG foam concentrates have demonstrated effective firefighting performance of 10 years or greater.

ENVIRONMENTAL

SOLBERG VERSAGARD 1x3 is siloxane-free and contains no intentionally added PFAS, fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with applicable EU Regulations. Presents no concern for persistence, bioaccumulation or toxic breakdown (No PBT profile).

 CAUTIONS

Foams should not be used in contact with electrical equipment or with chemical products that can react with water. It is recommended to avoid contact of the foam concentrate with skin. In case of eye splashes, wash with plenty of water. In case of ingestion do not induce vomiting, drink water and seek medical advice.

Contains no intentionally added PFAS.

FOR MORE INFORMATION

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