

# 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 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	UNITS (METRICS)
Specific Gravity, g/cm <sup>3</sup>	1.030-1.070
pH @ 20°C	6.5-7.5
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

**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 concentrate should be 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. It is compatible with multiple materials of construction found in firefighting equipment. For questions about material of construction compatibility consult Perimeter Solutions technical services.

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



**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.



**Solutions That Save.**

**FOR MORE INFORMATION**

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

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