



# Fluorine-Free Foam Solutions

**Foam Concentrate | Foam Equipment & Fixed System Hardware | Technical Support**

**Solutions  
That Save.**

**PHOS-CHEK® SOLBERG®  
AUXQUIMIA® FIRE-TROL®**

**Solutions That Save.**

Neighborhoods. Money. First Responders. Natural Resources. Wildlife. Wear and Tear. Critical Infrastructure. **Lives.**

## MARKET STANDARDS

### SOLBERG RE-HEALING™ RF3

SOLBERG RE-HEALING RF3 is the only fluorine-free firefighting foam concentrate, that is UL & FM approved with a full complement of hardware, including non-aspirated sprinklers at the same design application rate as fluorinated foams – allowing easier transition to fluorine-free technology. SOLBERG RE-HEALING RF3 is EN1568 1A rated and meets both ICAO B & C performance parameters. In 2018, leading aviation authorities in Oceania selected SOLBERG RE-HEALING RF3 and listed SOLBERG hardware when they transitioned from fluorinated foams in order to stay compliant with NFPA regulations, and to meet government environmental regulations. This transition has expanded to Europe and America as the global aviation industry continues to transition to fluorine-free foam systems for hangar protection.

## RECENT INNOVATIONS

### SOLBERG AVIGARD™

SOLBERG AVIGARD fluorine-free foam concentrates offer state-of-the-art fluorine-free, low viscosity aviation foam technology designed for extinguishing and securing flammable aviation fuel spills and fires (Jet A and Jet A1). A special combination of hydrocarbon surfactants and additives delivers excellent foaming, extinguishment and burnback properties with either freshwater or seawater. SOLBERG AVIGARD foam concentrates contain no added PFAS chemicals and can be considered readily and rapidly biodegradable.

### SOLBERG VERSAGARD™

SOLBERG VERSAGARD AS-100 multipurpose 3×3 fluorine-free foam concentrate is an alcohol-resistant, state-of-the-art pseudoplastic foam technology containing no intentionally added PFAS chemicals. It is designed for extinguishing and securing both Class B (hydrocarbon fuel and polar solvent fuel) and deep-seated Class A fires. The product is UL162 listed and certified EN1568 with both fresh and salt water with a 1A/1A rating, EN-1568:2018 parts 1 and 2 for use with medium and high expansion foam discharge device; International Maritime Organization certification MSC.1/Circ. 1312; LASTFIRE with three nozzles (aspirating, semi-aspirating, and system); and ICAO Level B.

# Leading the Conversion to Fluorine-Free

**Perimeter Solutions is a global leader in developing fluorine-free Class B firefighting foam concentrate technology and helping companies, agencies, and governments transition away from persistent technologies such as PFAS and siloxanes. The SOLBERG® RE-HEALING™ BRAND was the first fluorine-free foam on the market, and we are continuing our leadership in innovation and technology development with new products introduced regularly.**

Today, our fluorine-free line includes foams concentrates for hydrocarbon fuels, alcohol-resistant concentrates for polar solvent fuel fires, training foam, specialty foam, and a complete line of Class A foam concentrates. Our fluorine-free foam concentrates do not contain any intentionally added PFAS substances, including PFOS, PFOA, or persistent chemicals, such as siloxanes.

Perimeter Solutions is a leading fixed firefighting foam systems integrator with a broad foam technology portfolio and a growing range of fixed and mobile equipment options – along with the requisite listings and certifications that meet your applications needs.



Keep up to date with our latest  
Product developments here:  
**[perimeter-solutions.com](https://perimeter-solutions.com)**

# The Industry's Most Advanced Fluorine-Free Technology

Not all products are available in all regions.

CLASS B FOAMS	Description	Certifications/Listings
SOLBERG RE-HEALING RF1-AG	1% Class B (hydrocarbon fuels)/ Class A fuel wetting agent.	EN 1568-3
SOLBERG RE-HEALING RF3	3% Class B (hydrocarbon fuels)/ Class A fuel wetting agent.	UL162/ULC S564 Listed, FM Approved per Approval Standard 5130, EN 1568 Part 3, ICAO Level B and Level C.
SOLBERG RE-HEALING 3x6	3x6 ATC for hydrocarbon or polar solvent fuel fires. Class A fires.	EN 1568 Part 3 & 4, International Maritime Organization (IMO) MSC.1/Circ.1312; LASTFIRE; ICAO.
SOLBERG RE-HEALING RF6	6% Class B (hydrocarbon fuels)/ Class A fuel wetting agent.	ICAO B; EN 1568-3
<b>NEW</b> SOLBERG VERSAGARD AS-100	Premium Multipurpose 3x3 Concentrate for hydrocarbon or polar solvent fuel fires. Class A fires.	UL162 European Standard EN-1568:2018 parts 3 & 4 on all fuels with fresh water and seawater (IA/IA – IA/IA); European Standard EN-1568:2018 parts 1 & 2 – for use with medium and high expansion foam discharge devices; International Maritime Organization certification MSC.1/Circ. 1312; LASTFIRE (Good/Good/Good) with three nozzles (asp, semi-asp & system); ICAO Level B.
<b>NEW</b> SOLBERG AVIGARD	Low viscosity, 3% or 6%, excellent performance on Jet A/Jet A1 fuels.	ICAO B
PHOS-CHEK 1% Fluorine-Free	Premium 1% Class B (hydrocarbon fuels)/ Class A fuel wetting agent.	UL 162/ULC S654 Listed, UL/ULC Classified Class A Wetting Agent ANSI/NFPA 18, EN-1568-3:2018 (Class 1B) Approved (1A at 3% on Diesel); Meets :LASTFIRE batch testing.
AUXQUIMIA UNIPOL-FF 36	Multipurpose 3x6% Concentrate	UL 162 Listed, EN 1568-3 (Class IA) and EN 1568-4 (Class IB) Approved and meets the quality and perf Solberg and versagard ormanance test requirements of LASTFIRE.
AUXQUIMIA UNIPOL-FF 0.5	Fluorine-Free foam concentrate	EN 1568-3 (Class IB).
AUXQUIMIA UNIPOL-FF 1	Fluorine-Free foam to fight flammable liquid fires	UL 162 Listed with hydrocarbons fuels, EN-1568-3 (Class IB).
MULTI-EXPANSION		
AUXQUIMIA H-930	Premium high and medium expansion foam generators to fight class A and class B (hydrocarbon) fires.	EN-1568-3 (low)/EN-1568-1 (high) fresh & sea water (Class IIIC).
TRAINING FOAMS		
AUXQUIMIA EE-3 - Low viscosity	3%	Training Newtonian Simulation
AUXQUIMIA TF-136 - High viscosity	1%, 3% or 6%	Training Pseudoplastic Simulation



# We offer fluorine-free foam technology for your application!

AVIATION  
CHEMICAL

INDUSTRIAL  
MARINE

MILITARY  
MUNICIPAL

MINING  
OIL & GAS

POWER & ENERGY  
WILDLAND

## PERIMETER SOLUTIONS EQUIPMENT

Perimeter Solutions has a comprehensive equipment offering to support your suppressant foam application. This equipment has a range of listings depending on your use.



System Tanks



Proportioning Devices



Discharge Devices



Mobile Products

## Helping You Transition from Fluorinated Foam

Perimeter Solutions has our finger on the pulse of the global regulatory environment, as well as on emerging technology solutions to support you in your effort to transition from fluorinated foams. Our globally knowledgeable team can offer:

- **Transitioning advice**
- **Clean out and disposal advice**
- **Environmental testing (TOPA, TOF)**
- **Knowledge of local regulations**
- **Equipment selection support**

### Questions we can answer

- Is my foam PFAS-free?
- Is my foam free from other persistent chemicals like siloxane?
- Does my foam contain any other regulated chemistry – such as that found in California's Prop 65?
- Is my new foam going to be stable long-term in storage?
- What happens if water is inadvertently introduced to my foam concentrate?
- How does my fluorine-free foam perform with difficult polar solvent fuels like IPA?



**Perimeter**SOLUTIONS  
Quality Products. Exceptional Response.

**Solutions That Save.**

### FOR MORE INFORMATION

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