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# The Perimeter Solutions Fire Safety Group

**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.**

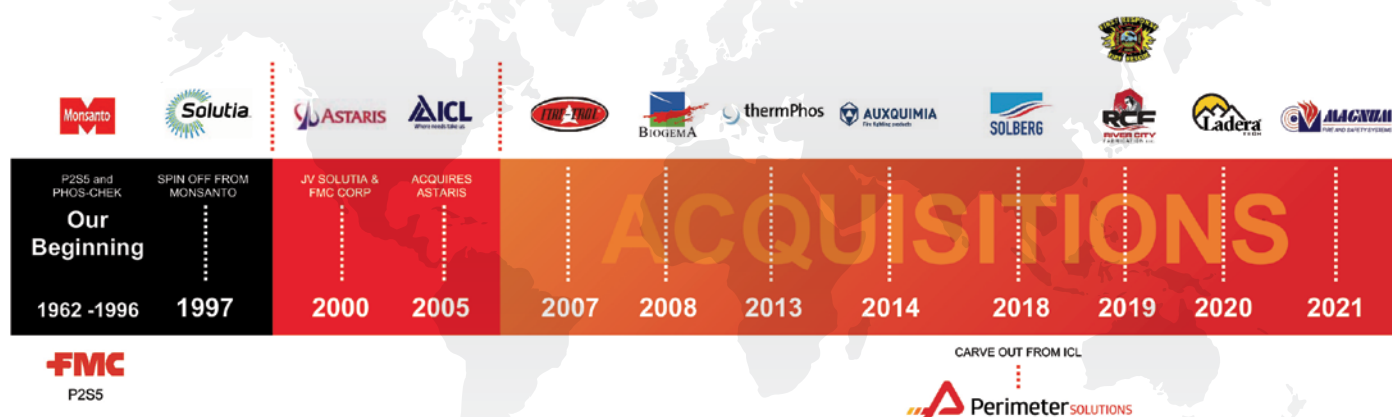
# The Global Perimeter Solutions Fire Safety Business



## Solutions That Save. Lives.

In the broad arena of Fire Safety, Perimeter Solutions is one of the world's most recognized, trusted suppliers. We're the only full-service solutions provider offering products, equipment, personnel, logistics and service. We are the largest global producer of firefighting chemicals with a broad product offering across fire retardants, firefighting foam concentrates, gel, and fire extinguisher applications. If you've worked in this business – you know us by our brands and our commitment to technology development and support.

## Fire Safety Innovators for 60 years



## The Industry's Most Comprehensive Fire Retardant Solutions

Perimeter Solutions' PHOS-CHEK® and FIRE-TROL® fire retardants help slow, stop and prevent the start of wildfires by making wildland fuels non-flammable. For more than fifty years, the people of Perimeter Solutions have been technology leaders in the arena of long-term fire retardants developed for a range of applications.

Perimeter is a key supplier of wildland firefighting products and services to the USDA Forest Service, CalFire and other large fire management agencies worldwide. Our PHOS-CHEK line of fire retardant products is used on thousands of fires every year and has become synonymous with aerial firefighting activities worldwide.

### Mobile Services

Perimeter Solutions portable retardant bases can be set up near the fire ground to support close-in, quick turnaround operations for all types of aerial delivery systems. Ground units can place retardant accurately, 24 hours a day, in almost all-weather conditions.

### Equipment

Perimeter Solutions PHOS-CHEK mixing equipment provides easy mixing for support of air tanker, helicopter and ground operations. We also offer equipment for the application of fire retardants, foams and gels. Systems can be fabricated and customized for a particular need.

This includes a complete line of mixing systems for all PHOS-CHEK products. Systems range from small-scale Hopper Mixer Systems designed to use 50-pound pails of powder to large-scale eductors, batch mixers and liquid blender systems. Systems can be fabricated and customized for a particular need. In support of firefighting operations, PHOS-CHEK personnel are fully National Wildland Coordinating Group (NWCG) trained and fire ground certified.

## Fire Suppressant Technology: Foams and More

Perimeter Solutions offers one of the industry's most comprehensive and highest performing lines of firefighting foam concentrates, including Class A, Class B, Class A/B and training foams. These foams meet international standards for fire suppression performance. Perimeter Solutions is a leader in the development of next-generation fluorine-free fire suppressant foam technology.



### Class A Foam

Perimeter Solutions offers a range of Class A foam concentrate options under our PHOS-CHEK and SOLBERG® brands – including the industry's leading product range: PHOS-CHEK WD881. These foams increase the effectiveness of water for direct suppression and mop-up and can be used in both aerial and ground operations.

### Class B Foam

Perimeter Solutions' PHOS-CHEK, AUXQUIMIA® and SOLBERG Class B firefighting foam concentrates represent innovative technology and are among the most effective and environmentally responsible products on the market. Our Class B product portfolio includes fluorine-free foam concentrate (FFF), aqueous film-forming foam concentrates (AFFF) and alcohol-resistant aqueous film-forming foam concentrates (AR-AFFF). These are offered in 1%, 3%, and 6% proportioned versions and include freeze-protected and low viscosity versions.

### Specialty Foams

Perimeter Solutions offers a broad selection of specialty foam concentrates under the PHOS-CHEK, AUXQUIMIA and SOLBERG brand names. These include training, multi-expansion and high-expansion applications. The line also includes foam concentrates suitable for compressed air foam systems, such as CAFOAM. Another entry is PHOS-CHEK 1% Class A/B Foam, a multipurpose product approved for use on Class A and B Fires.

### Fire Extinguisher Additives

Perimeter Solutions fire extinguisher additives are designed for use in portable fire extinguishers. These foam concentrates are intended for use in handheld or wheeled units for rapid extinguishment of shallow spill fires. They are compatible with carbon steel and light alloys, exhibiting a low corrosion rate.



## MARKET STANDARDS

### SOLBERG RE-HEALING™ RF3

SOLBERG RE-HEALING RF3 is the only fluorine-free firefighting foam concentrate that is UL & FM approved foam 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 certified and is approved for both ICAO B & C applications in aviation.

## RECENT INNOVATION

### SOLBERG VERSAGARD™

SOLBERG VERSAGARD AS-100 multipurpose 3x3 fluorine-free foam concentrate is an alcohol-resistant, state-of-the-art pseudoplastic foam technology, with no intentionally added PFAS chemicals, 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 (semi, asp, system); and ICAO Level B.

### SOLBERG AVIGARD™

SOLBERG AVIGARD fluorine-free foam concentrates are state-of-the-art fluorine-free, Newtonian (low viscosity) aviation foam technology designed for extinguishing and securing flammable aviation fuel spills and fires (Jet A and Jet A1). It is ICAO-certified for both fresh water and seawater.

# SOLBERG Firefighting Foams & Equipment



## Leading Fluorine-Free Foam Technology

Perimeter Solutions' SOLBERG line includes one of the industry's broadest and most technologically advanced portfolios of Class B and training firefighting foam concentrates. Perimeter Solutions markets our industry-leading portfolio of fluorine-free products under the SOLBERG brand.

The SOLBERG fluorine-free line includes foam concentrates for hydrocarbon fuels, alcohol-resistant foam concentrates for polar solvent fuel fires, training foam, and specifically specialty foams. Our fluorine-free foams do not contain any intentionally added persistent chemicals like PFAS substances, including PFOS or PFOA or siloxanes. SOLBERG fluorine-free foams come in a variety of mix rates (1%, 3% or 6%), viscosities, and freeze points.

The SOLBERG portfolio also includes aqueous film-forming foams (AFFF) and alcohol-resistant AFFF (AR-AFFF). SOLBERG ARCTIC AFFF and AR-AFFF come in a variety of formulations with varying mix rates (1%, 3% or 6%), viscosities, and freeze points.

SOLBERG firefighting foam concentrates possess a broad range of certifications and listings, including UL, EN, FM, LASTFIRE, IMO, NFPA, ICAO Class B & C.



## Fire Safety Markets

**Wildland**  
**Aviation**  
**Oil & Gas**  
**Municipal**  
**Industrial**

**Utilities**  
**Military**  
**Fire Extinguisher**  
**Consumer**

## SOLBERG Firefighting Foams

Not all products are available in all regions.

### FLUORINE-FREE

SOLBERG RE-HEALING	1%, 3%, 6%, 3x3, 3x6	Multipurpose/Aviation
SOLBERG VERSAGARD	3x3	Multipurpose
SOLBERG AVIGARD	3%, 6%	Aviation

### AFFF

SOLBERG ARCTIC	1%, 3%, 6%	Hydrocarbon
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### AR-AFFF

SOLBERG ARCTIC	1x1, 1x3, 3x3, 3x6	Hydrocarbon/Polar
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### AR Multi-Expansion Foam

SOLBERG HI-EX	1%, 2%	High Expansion Foam
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## SOLBERG Firefighting Foams & Equipment

### A Global Systems Integrator

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. Our equipment systems meet global certification and listing requirements, including UL and FM. Our experts know the real-world challenges and how to optimize the design of our proven products to fit each customer's individual needs.

Perimeter Solutions fixed foam suppression systems are designed to protect single and multiple high-hazard, high-risk applications, including aircraft hangars, foam-water sprinkler systems, helipads, truck loading racks and more. Perimeter Solutions fixed foam suppression systems are compatible with all Perimeter Solutions foam concentrates.



System Tanks



Proportioning Devices



Discharge Devices



Mobile Products

# AUXQUIMIA Firefighting Foams



Perimeter Solutions AUXQUIMIA brand firefighting foam products include concentrates for hydrocarbon fuels, alcohol-resistant concentrates for polar solvent fuel fires, training foam and specialty foams. These foams meet international standards for fire suppression effectiveness and performance. AUXQUIMIA firefighting foam concentrates have a track record for performance and cost-effectiveness.

Perimeter Solutions markets AUXQUIMIA fluorine-free foams under the UNIPOL brand. The AUXQUIMIA portfolio also includes aqueous film-forming foams (AFFF) (AQUAFILM™) and alcohol-resistant (AR-AFFF) foams (POLYFOAM). The AUXQUIMIA brand also features specialty foam concentrates for a broad range of applications. AUXQUIMIA AFFF and AR-AFFF come in a variety of formulations with varying mix rates (1%, 3% or 6%), viscosities, and freeze points.

AUXQUIMIA firefighting foams possess a broad range of certifications and listings, including UL, EN, FM, LASTFIRE, IMO, NFPA, ICAO Class B & C.

## AUXQUIMIA Firefighting Foams

Not all products are available in all regions.

FLUORINE-FREE		
UNIPOL-FF	0.5%, 1%, 3%, 6% 3x3, 3x6, K3, K6	Multipurpose
AFFF		
AUXQUIMIA AQUAFILM	1%, 3%	Hydrocarbon
AR-AFFF		
AUXQUIMIA POLYFOAM	1x3, 3x3, 3x6, 6x6	Hydrocarbon/Polar
AUXQUIMIA AQUAFILM ARN	0.5%, 1%, 3%	Low Viscosity AR-AFFF
MULTI-EXPANSION		
AUXQUIMIA FLUOPOL	3%, 6% alcohol resistant	Hydrocarbon/Polar
AUXQUIMIA H-930	1% - 3%	Class A/Hydrocarbon
AUXQUIMIA SF-60L	3%	Class A/Hydrocarbon
AUXQUIMIA RFC-105	0.2% - 1%	Class A/Hydrocarbon
SPECIALITY		
AUXQUIMIA CAFOAM	0.1% - 1%	Class A/Hydrocarbon
AUXQUIMIA CAFILM	0.5%	Hydrocarbon (AFFF)
TRAINING		
AUXQUIMIA EE-3 - Low viscosity	3%	Training Newtonian Simulation
AUXQUIMIA TF-136 - High viscosity	1%, 3% or 6%	Training Pseudoplastic Simulation



# PHOS-CHEK Firefighting Foams



Perimeter Solutions PHOS-CHEK brand firefighting foam concentrates include concentrates for hydrocarbon fuels, alcohol-resistant concentrates for polar solvent fuel fires, training foam and specialty foams. These foams meet international standards for fire suppression effectiveness and performance. PHOS-CHEK firefighting foam concentrates are available in North and South America and Asia and have a track record for performance and cost-effectiveness.

The PHOS-CHEK portfolio includes fluorine free-foams for hydrocarbon and polar solvent fuels. It also includes aqueous film-forming foams (AFFF) and alcohol-resistant (AR-AFFF) foams. PHOS-CHEK AFFF and AR-AFFF come in a variety of formulations with varying mix rates (1%, 3% or 6%), viscosities, and freeze points. PHOS-CHEK firefighting foams possess a broad range of certifications and listings, including UL, EN, FM, LASTFIRE, IMO, ICAO Class A & B and MIL-SPEC certification and NFPA18 wetting agent standard that is UL certified.

## PHOS-CHEK Firefighting Foams

Not all products are available in all regions.

FLUORINE-FREE		
PHOS-CHEK	1%, 3x3, 3x6	Multipurpose
AFFF		
PHOS-CHEK	1%, 3%, 6%	General purpose/Hydrocarbon
PHOS-CHEK MIL-SPEC	3%, 6%	General purpose/Hydrocarbon
AR-AFFF		
PHOS-CHEK	1x1, 1x3, 3x3, 3x6	Hydrocarbon/Polar
TRAINING		
PHOS-CHEK EE - Low viscosity	3%	Training Newtonian Simulation
PHOS-CHEK TF - High viscosity	1%, 3% or 6%	Training Pseudoplastic Simulation





## Creating Solutions That Save

At Perimeter Solutions, we're passionate about our customers and the products and services we provide them. People and the environment are also part of our mission. We take Corporate Social Responsibility to be good stewards of the environment seriously and are committed to reducing our environmental footprint and operating safely and sustainably. People are our goal – not a means to an end.

Perimeter Solutions' fluorine-free foam technology has been in the market for nearly two decades. With R&D teams on two continents, we are developing the next generation of high-performing fluorine-free Class B firefighting foam concentrates with new products introduced regularly. Perimeter Solutions is committed to a comprehensive portfolio of fluorine-free to replace existing foam technology by 2024. If you're interested in the future of fluorine-free foam technology and the issues related to transitioning, we invite you to contact us.



## Solutions That Save.

### FOR MORE INFORMATION

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