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Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market size is expected to reach $ 86.76 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent, commonly abbreviated as FP/AR or FP-ARC, is a protein-based alcohol-resistant firefighting foam concentrate formulated from hydrolyzed protein together with fluorocarbon and hydrocarbon surfactants, alcohol-resistant polymers or microbial polysaccharides, stabilizers, solvents, antifreeze agents and preservatives. It is designed for Class B fires involving both water-miscible polar solvents such as alcohols, ketones, esters and ethers and water-insoluble hydrocarbon fuels such as gasoline, diesel and crude oil. On hydrocarbon fuels, fluorosurfactants improve oleophobicity and help maintain a stable foam blanket; on polar solvents, the polymer or polysaccharide component forms a protective gel or polymer barrier between the fuel and the foam, preventing rapid foam destruction and improving vapor suppression and burnback resistance. Commercial FP/AR products are mainly supplied at 3% and 6% proportioning concentrations and may also be formulated in low-viscosity, cold-resistant or seawater-compatible grades.

Key Findings In 2025, global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent production reached approximately 47k tons, with an average global market price of around US$1.2k per ton 3% and 6% are the principal commercial concentration formats for Anti-Soluble Fluoroprotein Foam FP/AR protects both hydrocarbon fuels and water-miscible polar-solvent fire risks Polymer or polysaccharide barriers prevent polar solvents from rapidly destroying the foam blanket Petrochemical plants and petroleum storage facilities are the principal industrial application environments Market Trends Anti-

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Soluble Fluoroprotein Foam Fire Extinguishing Agents are developing toward improved environmental characteristics, lower viscosity, wider operating-temperature ranges and broader compatibility with existing industrial foam systems. Current FP/AR formulations combine hydrolyzed protein with fluorocarbon and hydrocarbon surfactants and polymeric components that provide the alcohol-resistant barrier required on polar fuels. Fomtec FP 3% AR uses C6 Pure fluorosurfactants and fluoropolymers and is designed for both hydrocarbon and polar-solvent fires, while Jiangsu Suolong offers FP/AR3% and FP/AR6% together with cold-resistant, seawater-resistant and low-viscosity configurations. Product development is increasingly focused on reducing pumping and proportioning difficulties associated with traditional high-viscosity alcohol-resistant concentrates, especially in colder climates and long-pipeline installations. At the same time, fluorine-free alcohol-resistant protein and synthetic foams are entering applications previously served by fluorinated FP/AR products. Fomtec, for example, markets fluorine-free P 3% AR for hydrocarbon and polar-solvent fires, demonstrating that the competitive technology landscape is extending beyond conventional fluoroprotein formulations. Market Dynamics Drivers Demand is driven by industrial locations where hydrocarbon and polar-solvent risks exist within the same facility. Petrochemical plants, chemical storage terminals, tank farms and industrial warehouses frequently handle gasoline, diesel and other hydrocarbons together with alcohols, ketones, esters and related water-miscible liquids. Conventional fluoroprotein foam performs well on hydrocarbon fuels but lacks the protective polymer barrier required on polar solvents, while FP/AR combines both functions within one concentrate. Luoyang Langchao’s FP/AR formulation uses hydrolyzed protein, fluorocarbon surfactants and microbial polysaccharides to form a gel film on polar-liquid surfaces, and the same product is also designed for ordinary oil fires. Existing low-expansion foam systems also support demand because FP/AR products are available in familiar 3% and 6% proportioning formats and can be used with standard low-expansion foam generators. Suolong specifically identifies large chemical plants, airports, wineries, oilfields, chemical warehouses, oil depots and marine transportation among its application areas. Restraints The main restraint is the transition away from fluorinated firefighting foam chemistry in a growing number of applications. FP/AR remains a fluorinated product even when short-chain C6 chemistry is used, and fluorine-free alcohol-resistant alternatives are increasingly available for the same hydrocarbon and polar-solvent risks. This creates substitution pressure in new installations and during replacement of aging foam inventories. Another restraint is product viscosity. Alcohol resistance requires polymeric or polysaccharide components that can substantially increase concentrate viscosity relative to ordinary fluoroprotein foam, affecting pumping, proportioning accuracy and cold-weather performance. Cold-resistant and low-viscosity formulations address these issues but increase formulation complexity. Storage and compatibility are

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also important because manufacturers specify that FP/AR concentrates should not be mixed with unrelated chemicals or other foam types and should be maintained within defined storage-temperature ranges. Opportunities Petrochemical and chemical facilities handling mixed fuel inventories remain the most important application opportunity because a single FP/AR concentrate can protect both hydrocarbon and polar-solvent hazards. Product upgrading creates additional opportunities through low-viscosity, seawater-resistant and cold-resistant formulations. Suolong offers ordinary and cold-resistant FP/AR grades with flow points extending from approximately -10°C to as low as -30°C and also provides seawater-resistant and low-viscosity variants. Marine terminals, coastal chemical storage, oil depots and ships therefore represent attractive applications for seawater-compatible formulations. Another opportunity lies in performance and certification differentiation. Fomtec FP 3% AR is approved according to IMO 1312 and MED and supports low- and medium-expansion application, creating a product route for marine and internationally regulated installations. Challenges The principal formulation challenge is maintaining stable foam performance across two chemically different fuel classes. Hydrocarbon fires require strong oleophobicity and resistance to fuel contamination, whereas polar solvents require a polymer barrier that prevents water-miscible fuels from dissolving or collapsing the foam. These functions must be balanced without making the concentrate excessively viscous or difficult to proportion. Commercial specifications therefore control freezing behavior, flowability, sediment, pH, corrosion, expansion and drainage characteristics. Luoyang Langchao’s FP/AR product specification includes sediment limits of no more than 0.25% before aging and 1.0% after aging, pH of 6.0–9.5 and defined fire-performance requirements. A second challenge is technology substitution from fluorine-free alcohol-resistant foams, which increasingly provide hydrocarbon and polar-solvent protection without fluorinated substances. Industry Chain Analysis The upstream industry includes hydrolyzed protein, fluorocarbon and hydrocarbon surfactants, alcohol-resistant polymers or microbial polysaccharides, solvents, stabilizers, antifreeze agents, preservatives, corrosion-control additives and packaging materials. Midstream manufacturing covers formulation, blending, filtration, viscosity control, fire-performance testing, freezing and thawing testing, corrosion testing, filling and product certification. The key value-creation points are fuel compatibility, foam stability, polymer-film formation, viscosity control, low-temperature performance, seawater compatibility and certification. Fomtec FP 3% AR uses hydrolyzed protein, fluorocarbon and hydrocarbon surfactants, polymers, solvents and stabilizers, while Luoyang Langchao uses hydrolyzed protein, fluorocarbon surfactants and microbial polysaccharides. Downstream customers include petroleum and petrochemical companies, chemical manufacturers, tank farms, chemical warehouses, airports, marine operators, oilfields and industrial fire brigades. Supporting equipment includes foam tanks, proportioners, pumps, low-expansion generators,

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monitors and fixed or mobile foam systems. Segment Insights By proportioning concentration, Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agents are mainly divided into 3% and 6% products. FP/AR3% is mixed with water at approximately 3:97, while FP/AR6% is mixed at approximately 6:94. Both formats are commercialized by manufacturers such as Suolong and Luoyang Langchao. The 3% format reduces concentrate consumption and foam-storage volume for an equivalent volume of finished foam solution, while 6% products remain relevant to installed systems designed around 6% proportioning hardware. Downstream Market Opportunities Petroleum and chemical applications form the central downstream market because these facilities often contain both non-water-soluble hydrocarbons and water-soluble chemicals. Large chemical plants, oil depots, tank farms, chemical warehouses and oilfields benefit from a multipurpose foam capable of protecting mixed Class B fuel inventories. Luoyang Langchao identifies ordinary oil fires and polar chemical-liquid fires as target applications, while Suolong includes chemical plants, airports, wineries, oilfields, oil depots and ships. Coastal petrochemical terminals and marine transport create additional demand for seawater-compatible products, while cold-climate storage facilities support low-temperature grades. Replacement of concentrates in established fixed foam systems also provides recurring demand. Regional Insights Asia has a substantial industrial application base for FP/AR because of large petroleum refining, petrochemical production, chemical storage and port infrastructure. China has commercial FP/AR3% and FP/AR6% product lines covering low-temperature, seawater and low-viscosity configurations. Suolong offers FP/AR3% and FP/AR6% for chemical plants, airports, oilfields, warehouses, oil depots and marine applications, while Luoyang Langchao provides environmentally positioned FP/AR3/6% products with seawater and low-temperature specifications. Europe also retains an established FP/AR product base. Fomtec supplies FP 3% AR using C6 Pure fluorochemistry, with IMO 1312 and MED approvals and low- and medium-expansion capability. Europe and other mature markets are simultaneously seeing increasing adoption of fluorine-free alcohol-resistant foams, making replacement technology an important part of regional competition. Competitive Landscape Analysis Competition in Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agents centers on polar-solvent performance, hydrocarbon-fire capability, viscosity, cold-weather characteristics, seawater compatibility and certification. Dafo Fomtec supplies FP 3% AR based on C6 Pure fluorosurfactants and fluoropolymers, with IMO 1312 and MED approvals and capability for hydrocarbon and polar-solvent fires. Jiangsu Suolong Fire Science and Technology supplies FP/AR3% and FP/AR6%, together with cold-resistant, seawater-resistant and low-viscosity configurations for industrial and marine applications. Luoyang Langchao Fire Technology supplies FP/AR3/6% based on hydrolyzed protein, fluorocarbon surfactants and microbial polysaccharides and targets both oil fires and polar chemical-liquid fires.

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Competition is increasingly influenced by fluorine-free alcohol-resistant protein and synthetic foams, which provide an alternative route for facilities seeking to remove fluorinated substances from Class B fire protection.

Report Scope

This report studies the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent total production and demand, 2021-2032, (Kilotons)

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent total production value, 2021-2032, (USD Million)

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent domestic production, consumption, key domestic manufacturers and share

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

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Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hatsuta Seisakusho, BIO EX, Tyco Fire Protection Products, Amerex Corporation, National Foam, Perimeter Solutions, DIC, Dafo Fomtec, Fire Service Plus, Dr. Richard Sthamer, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent Market, Segmentation by Type:

3%

6%

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent Market, Segmentation by Type of Water Used:

Freshwater Type

Seawater Resistant Type

Compatible Type

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent Market, Segmentation by Density:

1.10–1.15 g/cm³

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1.15–1.17 g/cm³

Others

Global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent Market, Segmentation by Application:

Oil

Natural Gas

Chemicals

Others

Companies Profiled:

Hatsuta Seisakusho

BIO EX

Tyco Fire Protection Products

Amerex Corporation

National Foam

Perimeter Solutions

DIC

Dafo Fomtec

Fire Service Plus

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Dr. Richard Sthamer

Angus Fire

Buckeye Fire Equipment

Foamtech Antifire

KV Fire

Jiangya Fire Technology

Qiangdun Fire Equipment

Suolong Fire Technology

Chambroad Sinopoly New Materials

Xinxiao Fire Equipment

Zhongansheng Fire Technology

Tie'an Fire Protection Technology

Anquan Fire Protection Technology

Jinruiheng Fire Technology

Xiangheng Fire Agent

Xiaodun Fire

Ruigang Fire Safety Technology

Water Power Fire Control

Langchao Fire Technology

Haoqian Fire

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Shuisheng Fire

Key Questions Answered

1. How big is the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market?
2. What is the demand of the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market?
3. What is the year over year growth of the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market?
4. What is the total value of the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market?
5. Who are the Major Players in the global Anti-Soluble Fluoroprotein Foam Fire Extinguishing Agent market?
6. What are the growth factors driving the market demand?

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