



FIREFITE AEROSOL SYSTEM

Rely On Us For Your Safety



THE NEXT GENERATION FIRE FIGHTING TECHNOLOGY

ABOUT US



Fire Fite®
an ISO 9001 CERTIFIED CO.

SCM CHANNEL, over 44 years of experience and commitment in the field of manufacturing FireFite brand Fire Extinguisher & System Integration; we are ready to meet any special hazard specification. Today or in the future. Our recommendations, capabilities and commitment to our customers continue to make a world of difference. With more experience and more applications, we provide a full range of Fire Extinguishers, hardware, design, specification, installation and support services countrywide.

Thousands of companies around the country have confidence to protect their businesses with FireFite Extinguisher & integrated systems. With our single-source responsibility for suppression, control and support, we continue to invest and develop research and development to Conventional Fire Suppression Systems. I.e. Sprinkler Systems, Hydrant Systems, CO2 System, FM200 / Novec System, Hypoxic air technology, Aerosol systems, Fire Detection & Alarm System along with Maintenance of Systems. As a well-established brand 'FireFite' with certifications and approvals like ISI, ISO, CE, DRDO, IRS, we have been providing safety for over 44 years.

Established in 1972 we are today a strong workforce of Engineers, Technicians and Skilled set of workers with an ideal mix of experience and youth supported by a dedicated management, directed towards a single goal of Safety.

STRENGTH OF 4 DECADES OF INNOVATION, EXPERIENCE & QUALITY



CERTIFICATION AND COMPANY APPROVAL



ABOUT FAS CONCEPT & TECHNOLOGY

BHARATI FIRE ENGINEERS WERE THE FIRST TO LAUNCH THE NEXT GENERATION FIRE FIGHTING TECHNOLOGY IN INDIA IN 2010.

We are pleased to state that we are going to start manufacturing shortly in India under Make in India concept & export it to the world.

WHAT IS FAS?

FireFite Aerosol is composed of micro-sized particles of various potassium compounds. When the FAS is activated, thermally or electrically, the micro particles leave the FAS -unit. Solid micro particles and a gas mixture (mainly CO2, N2 and water vapor) are mixed to form an extinguishing mixture. 70% gas + 30% very Fine Particles (less than 5 Micron)

HOW DOES FAS WORKS?

FAS works volumetrically, just like Halon: It affects the combustion process. The extinguishing principle is two-sided. Potassium compounds require the least amount of energy for ionization. Ionization is the process, in which an atom loses an electron or gains an ion. A very small amount of energy is required to remove the electrons from the atoms. The required amount of energy is supplied by the abundance of energy present in the fire. The energetic content of the flames is reduced in proportion to the ionization Potential.



FIREFITE AEROSOL SYSTEM

AEROSOL FIRE EXTINGUISHING SYSTEMS EFFECTIVE AND INNOVATIVE.

FAS-Firefite aerosol Technology is based on the chemical reaction of solid energetic materials that generate, via the combustion process, large amounts of a highly efficient, cost-effective, powdered aerosol that acts chemically and physically on the fire to extinguish it within several seconds.

FAS-Firefite aerosol is environment friendly with zero Ozone Depletion Potential (ODP) and does not contribute to the Global Warming Potential (GWP). It has been approved as a Halon Alternative for normally non-occupied spaces, and is listed on the EPA-SNAP.

FAS Firefite aerosol's high efficiency, low maintenance and extremely low life cycle cost render it as a perfect solution for total flood fire extinguishing applications.

FAS Firefite aerosol is 3 to 5 times more effective than halocarbon gaseous alternatives on a cost/weight basis, providing efficient total flood extinguishing for class A (surface fires), B (solvents), C (gases) and E (electrical) fires

FAS PRODUCT RANGE

FAS A5 (Make in India. Exporting to the world)

MAJOR FEATURES

- Zero Flame Emissions, Very Safe!
- Electronic Ignition, No Pyrotechnic Igniter!
- Greater Coverage Area When Compared To Competitive Products!
- The Cleanest Aerosol Available Today!
- Saves Lives And Property
- Drastic Reduction In The Emission Of Pollutants Due To Burning
- Preserves The Integrity Of Any Structure
- Preserves The Fire Scene For Arson Investigations
- Can Reduce Insurance Claims By Up To 75% From Fire And Water Damage
- 15 Year Shelf Life
- Non-toxic, Non-corrosive And Non-conductive

TECHNICAL DETAILS

*based on a concentration of 50 gram/m³

	FAS A5
Active Substances	2.5 kg
Discharging Time	33 sec
Volume Coverage	≤100 m ³
Activation method	Manual, electronic
Operational to	-40°C / 70°C
Weight	6 Kg



FAS - MAIN FEATURES

FAS CAN BE USED IN 2 WAYS

- **A) Fixed Fire Extinguishing Systems**
The systems can be linked, so that large spaces can be protected preventively.
- **B) Manual Knockdown Tool**
Simple to operate. Pull the pin and throw the FAS - FST 5 in the seat of fire. Knocks down the flame in a matter of seconds.

FAS - MAIN FEATURES

- UL 2775 Approved.
- FAS used as an intervention tool.
- Suitable for all Classes of Fire (A,B,C,F,E)
- Quick extinguishing & heat reduction.
- Ozone & Eco-friendly
- Very effective & efficient
- No pipe work or manifolds/Nozzles
- Zero pressure storage
- Zero maintenance cost
- Very cost efficient-Cheaper than Current Available Systems
- No Re-ignition & water damage
- Very Low Residue
- Non Toxic (No Human Hazard)
- 15 years Tough Free Shelf Life
- Zero Damage to Electrical Equipment's
- No bulky Cylinder Storage
- Works Volumetrically
- Can be applied for early stage fires as well for advance fires
- Reduces the fire seat temperature
- Is light-weight and very compact
- Keeps the oxygen content in the room intact
- Is released only after ignition
- Does not create an increase of pressure in the room to be extinguished
- Can be applied in a large temperature range of -40°C to +70°C
- Special Models for military applications
- Listed on EPA-SNAP list as powdered Aerosol.
- Designed to meet NFPA 2010 & EN 15276.
- Military Grade Optional

CERTIFICATION AND PRODUCT APPROVAL



FAS - A SERIES

PRODUCT SPECIFICATIONS (MAKE IN INDIA. EXPORTING ALL OVER THE WORLD)

MODEL	A50	A100+	A200+	A500	A1000	A5000
SFE WEIGHT (gr)	50	100	200	500	1000	5000
DISCHARGE TIME (sec)	17	<20	<22	32	47	58
DIMENSIONS (mm)						
- WIDTH	50	60	80	120	120	190
- HEIGHT	50	60	80	120	120	390
- LENGTH	97	170	180	260	320	390
TOTAL WEIGHT (kg)	0.6	1.2	2.7	11.6	12.5	46
ACTUATING SYSTEM (Electric)	1.2 A					
EXTINGUISHING (m ³)	0.5	1.0	2.0	5.0	10	50
ENVIRONMENTAL OPERATIONAL CONDITIONS	-40°C to + 80°C 98% RH Max					
STORAGE CONDITIONS	25°C ± 15°C					
SERVICEABILITY (After Installation)	12 Years					
ACTIVATION MODE	Electrical					
TOXICITY	None					
ENVIRONMENT FRIENDLY	No impact on ozone layer or greenhouse effect (No ODP & GWP)					
HAZARD CLASS	UN 1479 Class 5.1					

*Special models for military applications (A100M, A200M) These models meet the military requirements



APPLICATIONS

FIREFITE aerosol has many applications in various industrial, commercial, residential and military fire protection markets. Industries such as power utilities, chemical & petrochemical, oil & gas exploration/shipping/storage, mining, marine (commercial & pleasure craft), communications, transportation (aviation/automotive) and many others feature applications for aerosol fire extinguishing, such as:

- Battery Room
- Control rooms (sub floor; above ceiling)
- Cable trays and elevators pits
- Electrical Power Panels and Cabinets
- Transformer rooms
- Engine & Compressors rooms, Pumps rooms
- Flammable and combustible liquids and gases storage
- Paint lockers
- Warehouses, Storage Containers
- Ground support equipment
- Point spray booths
- Marine applications
- Computers, Data Centers and Small Server rooms
- UPS's and ISP's
- Telecommunications facilities ...And many more.



and many more....

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A REVOLUTION IN FIRE SAFETY