



Fluorine Free Alternatives for Fire Fighting Foam



fire protection
TECHNOLOGIES



GASEOUS
SUPPRESSION



WATER
SUPPRESSION



FOAM
SUPPRESSION



EXPLOSION
PROTECTION



FIRE
DETECTION



MILITARY
& DEFENCE



SPECIAL
APPLICATIONS



SUPPORT
SERVICES

Fluorine Free Fire Fighting Foam

"EVERY SOLUTION FOR YOUR SPECIAL HAZARD PROBLEMS"

Recent legislation passed in Queensland has focused Industry on the removal and destruction of fluorinated AFFF fire fighting foam concentrates containing PFOS and PFOA and replacing them with **Fluorine Free Alternatives**

Following on from this legislation, Fire Protection Technologies has introduced the Fomtec range of Fluorine Free foam concentrates with superior performance over competitive products.

Fomtec Fluorine Free foam concentrates are environmentally sustainable, non bio-accumulative and PFOS and PFOA free. Fomtec Fluorine Free foam concentrates are used to effectively extinguish Class B fires under all conditions and without concern for environmental persistence.

Fomtec Fluorine Free foam concentrates are formulated using new laboratory technologies and techniques and are high performance synthetic foams specifically designed to replace traditional AFFF and AR-AFFF foam concentrates and older fluoroprotein foams.

Fomtec Fluorine Free foam concentrates can be used in fresh, salt or brackish water and possess excellent burn back resistance due to its remarkable flow and sealing characteristics. The foaming characteristics of Fomtec foam concentrate formulations allow the foam to quickly spread across the burning liquid and rapidly suppress the fire.



FOMTEC FLUORINE FREE FORMULATIONS

ENVIRO 3% ICAO

- ICAO B approved
- Effective against both hydrocarbons and polar solvents
- Used at 3% solution
- Can be used as both low and medium expansion foam



ENVIRO 3X3 ULTRA

- Multi purpose foam concentrate
- Effective against both hydrocarbon and polar solvents
- Effective against foam destroying liquids such as MTBE
- Used at 3% solution
- Can be used as both low and medium expansion foam

ENVIRO 3X6 PLUS

- Multi purpose foam concentrate
- Effective against both hydrocarbons and polar solvents
- Effective against foam destroying liquids such as MTBE
- Used at 3% solution on hydrocarbons and 6% solution on polar solvents
- Can be used as both low and medium expansion foam

ENVIRO 6X6 PLUS

- Multi purpose foam concentrate
- Effective against both hydrocarbons and polar solvents
- Effective against foam destroying liquids such as MTBE
- Used at 6% solution
- Can be used as both low and medium expansion foam

PROPORTIONING DEVICES

As a result of being Fluorine Free, these foam concentrates are much more viscous than conventional AFFF and AR-FFF foam concentrates. In most cases, changing the foam concentrate from AFFF to Fluorine Free will mean that the existing foam concentrate proportioning devices will require modification or replacement. Fire Protection Technologies has a wide range of proportioning devices to suit Fluorine Free foam concentrates:



FireDos® is the revolutionary proportioning system that operates without any external power supply. Drive for the unit is provided solely by the water supply being used to fight the fire. The rotation speed of the drive motor is proportional to the volumetric flow rate, thereby enabling the FireDos® unit to accurately proportion product concentrations from as low as 0.1% up to 6%. It is capable of handling practically any fluid from a flow rate of 10 L/min. to 20,000 L/min. and is not affected by fluctuations in flow or pressure.

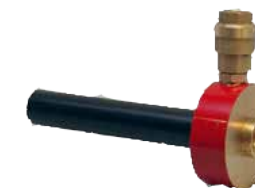
VRIND WRI VARIABLE FLOW INDUCTOR



The Fomtec® Vrind variable flow inductor represents the latest development in the range of Fomtec foam proportioning units. Thanks to its revolutionizing patented induction method, the Vrind-WRI, will automatically adjust to the current water flow and will maintain the same accurate proportioning of 1% or 3% AFFF throughout the whole flow range from 125 up till 5480 lpm, within an inlet pressure range between 8 to 12 bar

BFZ 1 1/2" - 8" S FIXED FLOW INDUCTOR

The BFZ inductor can be installed in all fixed flow systems, especially in areas where deluge nozzles are used such as storage facilities and aircraft hangars.



GB 2"-10" BT/FP



The GB "BT/FP" is a high performance foam proportioner designed for use with bladder tanks and/or foam pumping systems and combines very high proportioning accuracy with a low pressure drop. The GB series comes in sizes from 2 inch up to 10 inch, and flow ranges between 110 to 24000 lpm

(standard versions).

The flow range ratio of 1:10 (1:5 for ARC type foam) makes the GB a flexible component in a fixed foam system.

For maximum flexibility the GB proportioners can be modified to suit a unique system specification. It can be modified for adjustable proportioning ratio or for minimal pressure drop or flow rate higher than 100% without changing proportioner body size. The GB "BT/FP" proportioners are standard equipped with foam inlet check valve.

The Fomtec "WRP BT/FP" is suitable for fixed foam systems where a variable flow rate can occur, such as in sprinkler systems or multiple deluge systems. The WRP allows very accurate proportioning which is constant over the whole flow range.



In addition, Fire Protection Technologies offers a complete design service whereby we provide comprehensive engineering solutions for existing (or new) foam fire protection installations.

PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® / NAF S 227 (HFC-227ea.)
Ecaro 125® / NAF S 125 (HFC-125)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe & Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam Concentrate Testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility Testing

Fire Detection



Linear Heat Detection - Digital
Linear Heat Detection - Fibre Optic
Linear Heat Detection - Micro Chip
Flame Detection
Video Imaging Detection
Spark Detection
Control & Indicating Equipment
Thermal Imaging Detection
Aspirating Smoke Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine & Offshore
Vapour Mitigation

Support Services



Design / Engineering
Technical Support
Services & Testing

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