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# Fire & Safety Industries

Global Fire Solutions

## Vehicle Fire Suppression Systems

Vehicles by their nature pose a high fire risk due to the fact that they carry a combination of flammable liquids such as fuel and hydraulic oils. Introduce an ignition source from a turbo, electrical fault or external factor and there is potential for a major fire.

Fire & Safety Industries (FSI) manufactures, installs and maintains its own state-of-the-art system called the Foam-Guard Fluorine Free (F3) Fire Suppression System which is fully accredited by CSIRO's ActivFire® Scheme and is certified to Australian Standard AS5062:2016.

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# Foam-Guard Fluorine Free (F3) Fire Suppression System

**F**ire & Safety Industries has developed its own state-of-the-art system called the 'Foam-Guard Fluorine Free (F3) Fire Suppression System' which is fully accredited by CSIRO's ActivFire® Scheme and is certified to Australian Standard AS5062:2016.

This system is an Australian innovation and was developed by FSI after significant consultation with industry, machinery manufacturers and contractors in conjunction with in-field trials to achieve arguably the most advanced Fluorine Free (F3) Fire Suppression system on the market.

The Foam-Guard Fluorine Free (F3) Fire Suppression System can be configured to suit all applications in mining, forestry, construction, transportation, marine or manufacturing industries. After an initial customer consultation and thorough risk assessment analysis each application is individually assessed to identify all fuel and ignition sources and the FSI system is then designed and installed to ensure optimum coverage of all risk areas.

The use of Fluorine Free Foam is the most effective way to extinguish vehicle fires. The application of foam cuts the oxygen supply to the fire and aids in cooling the area to prevent re-ignition. Unlike powder systems, Fluorine Free (F3) Foam does not cause a powder cloud around the protected plant that can impair the operator's vision as they try to evacuate from the machine, and further allows for easy clean up with no corrosive concerns.



In the event of a fire, the Loss of Pressure (LOP) is detected through the pressure tubing automatically activating the system to dispense the Fluorine Free Foam from strategically placed nozzles to extinguish the fire. The fire alarm panel is also triggered which alerts the operator and surrounding personnel of the situation. The shutdown panel (when fitted) will further shutdown the engine after predetermined times to prevent the continued fuel supply to the fire.

The FSI system also provides for manual activation and can be installed with many options such as automatic engine shutdown, a secondary detection mechanism using thermal probes, and an auxiliary spray network for additional or backup support. FSI also offer Rise of Pressure (ROP) style systems or Electric Pneumatic activation to meet varying client requirements.

Fire & Safety Industries have a dedicated team of qualified technicians available to install, commission, service and maintain the range of FSI manufactured fire suppression systems as well as a variety of other manufacturers systems in accordance with manufacturer's specifications.

All installations include 24-hour support and are available with full service and maintenance plans.

FSI has significant fire suppression spare parts holdings available in existing Brisbane, Moranbah and Blackwater warehouses meeting customers' requirements.

It is FSI's passion to lead the fire and safety industry with innovative system design and longevity. With our Head Office in Brisbane and regional support provided from branches in Mackay, Moranbah and Blackwater, FSI also work closely with our domestic and international distributors to provide tailored solutions to our clients across the globe.



Fire & Safety Industries

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