



FIREBLOCK®

COMPANY PROFILE



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ABOUT **FIREBLOCK**

Founded in 2021, FireBlock (Pty) Ltd is committed to protecting lives, communities, and the environment from the devastating effects of fire. Inspired by the wildfires in Australia, the company develops firefighting solutions that are both highly effective and environmentally responsible. From its first innovation, FireBlock Avert, to its flagship FireBlock Lithium Gel, the company combines research, hands-on expertise, and innovation to tackle fires of all scales.

FireBlock collaborates with professionals across mining, forestry, and firefighting sectors, offering powders, gels, advanced suppression systems, and vehicle specific fire protection. With SANS 1475 certification and comprehensive services including extinguisher maintenance, FireBlock delivers reliable, sustainable solutions that consistently meet international standards.



VISION & MISSION

VISION

To be the global leader in fire safety by saving lives, protecting communities, and providing solutions to the most challenging fire threats from catastrophic wildfires to emerging lithium battery risks with environmentally responsible products that benefit everyone.

MISSION

We are committed to developing and delivering innovative, non-toxic, and biodegradable fire suppression solutions.

Our mission is to:

- Provide a complete range of products that safeguard people, property, and the environment.
- Support industries and communities with expert consultation, training, and service excellence.
- Continuously solve new fire challenges with sustainable technologies that make fire protection accessible and effective worldwide.

CORE VALUES

Life First:

Every solution begins with the commitment to save lives and protect communities and property.

Innovation with Purpose:

We pioneer advanced fire suppression technologies to address today's and tomorrow's toughest fire risks.

Environmental Stewardship:

Our products are eco-conscious, non-toxic, and biodegradable, ensuring protection without harm to the planet.

Excellence in Service:

We partner with clients through consultation, support, and reliable delivery to ensure safety at every level.

Safety & Trust:

We safeguard people, property, and infrastructure while building trust through integrity and accountability.

WHY FIREBLOCK?

GLOBAL EXPANSION AND RECOGNITION

Through rigorous in-house testing and continuous product refinement, FireBlock ensures its solutions are highly effective against a variety of fire types. In 2024, the company expanded internationally with the launch of FireBlock International (Pty) Ltd at the Dubai Fire and Security Expo (INTERSEC). The lithium and smart fire suppression systems quickly gained recognition worldwide, securing representation across Europe, Africa, Asia, North and South America.

CERTIFICATIONS AND QUALITY ASSURANCE

Certification is a cornerstone of FireBlock's commitment to quality and reliability. Its products are proudly certified under multiple international standards, including the BSI Kitemark, SANS1910, BIS (Bureau of Indian Standards), CE Marking, NTA 8133-2021, and SANS 1475. These certifications reflect FireBlock's dedication to safety, performance, and adherence to global fire protection standards.

RESEARCH, DEVELOPMENT, AND DEMONSTRATIONS

FireBlock continually invests in research and development, ensuring its technologies remain at the forefront of firefighting innovation. The company conducts live demonstrations and comparative testing, inviting industry professionals to witness the performance and efficacy of its products. This commitment to transparency and education fosters trust and positions FireBlock as a leader in fire safety solutions.

CLIENT INDUSTRIES AND APPLICATIONS

FireBlock serves a diverse range of industries, including mining, forestry, agriculture, industrial operations, and residential safety. Its solutions are applicable in wildfire management, industrial fire protection, lithium-ion battery safety, and emergency response scenarios. The company is frequently called upon for consultancy, custom system design, and collaborative development projects.

SUSTAINABILITY AND ENVIRONMENTAL RESPONSIBILITY

Environmental responsibility is at the heart of FireBlock's product design. All gels and powders are biodegradable, non-toxic, and formulated to minimize environmental impact while maintaining high-performance fire suppression. This commitment ensures that FireBlock's solutions protect both people and the environment.

OUR PRODUCTS



FIREBLOCK LITHIUM

A specialized gel developed to extinguish lithium-ion battery fires, regardless of cell type or chemical composition. It encapsulates the battery, forming a protective layer that cools the fire and prevents thermal runaway. Available in various sizes, including 2L, 6L, 9L, and 50L units.



FIREBLOCK FFG

A water based gel fire extinguisher designed for Class A fires, offering rapid flame suppression with minimal mess. Its strong cooling effect makes it particularly effective for truck and commercial vehicle applications, especially in cases of overheated brakes. Available in 9L units, it provides a reliable and versatile solution for a variety of fire scenarios.



FIREBLOCK AVERT

A versatile fire-retardant powder that forms a gel when mixed with water. It is six times more effective than water alone, actively fighting fires and preventing reignition. Ideal for creating firebreaks and controlling grass and bushfires, it can be sprayed directly onto active fires or used preventatively to stop fire spread. Highly effective in agricultural, rural, and wildlife settings.



FIREBLOCK FOREST

A non-toxic, biodegradable fire retardant specifically formulated for the forestry industry. Designed for large-scale wildfires and structural fires, it forms a gel when mixed with water that seeps through undergrowth, stopping smoldering and preventing fire spread while protecting trees and vegetation. This protective barrier adheres to surfaces, shielding them from heat and flames, making it ideal for forests, reserves, and wildland areas.

FIREBLOCK COAL COOL



Tailored for the coal mining industry, this water based gel fire suppressant prevents spontaneous combustion in coal stockpiles and mining operations. It rapidly knocks down flames, suppresses heat, reduces the risk of reignition, and protects machinery while cooling coal effectively. Available in three strengths, it is specially formulated for stockpiles, open-cast mining, and high wall mining applications, providing targeted fire protection across all operational areas.

FIREBLOCK AIR



An eco-friendly aerial firefighting gel formulated for deployment from helicopters and fixed-wing aircraft. Engineered for safety and performance, it provides excellent flame knockdown while ensuring clear visibility for pilots during application. The gel is fully biodegradable, non-toxic, and leaves no lasting impact on soil or water, making it an environmentally responsible choice for large-scale wildfire suppression.

TEKFOAM



An eco -friendly fluorine free gel-based firefighting foam suitable for a wide range of applications, including industrial, commercial, and vehicle fires. It provides rapid flame suppression, is easy to induct, and is highly reliable for emergency response teams. Tekfoam is used in many of FireBlock's large commercial suppression systems due to its versatility, 3% concentrate for hydro carbon and polar solvent fires.

FIREBLOCK 800ML AEROSOL UNITS



A disposable, portable gel foam fire suppressant in an 800ml aerosol canister. Designed for rapid response to small fires in vehicles kitchens, and outdoor areas, it delivers instant flame knockdown, prevents reignition and is effective on Class A, B, C, D, and F fires. Compact and easy to use, it also provides reliable protection against lithium battery fires in smartphones, laptops, and power tools, making it a versatile solution for everyday fire safety.

SUPPRESSION SYSTEMS



INTELLIGENT SUPPRESSION SYSTEMS

Advanced fire suppression systems engineered for lithium-ion battery safety. When cell temperatures exceeds 80°C, the system automatically activates, releasing FireBlock Lithium Gel to rapidly cool the source and stop thermal runaway before it spreads. Scalable from small four-rack setups to full warehouses protection, these systems feature integrated alarms, temperature monitoring and real-time app notifications, ensuring immediate response and continuous safety in high risk battery storage environments.



DLP LITHIUM SUPPRESSION SYSTEMS

An automatic fire suppression system designed for lithium battery modules, protecting against thermal runaway and fire at cell level. A heat-sensitive pressurized tube detects and extinguishes flames directly at the source without electricity. Available in single- or multi-module designs to protect up to 5 modules. The multi-port option adds a pressure switch and remote alerts, delivering a reliable, passive, and eco-friendly safety solution. This system integrates FireBlock lithium gel to suppress lithium-ion batteries

PRODUCT AND SERVICES

FIRE FIGHTING EQUIPMENT

- Fire Extinguishers
- Hose Reels
- Hydrant Valves
- Boosters
- Fire Blankets
- First Aid Kits

OCCUPANCY & BUILDING SERVICES

- Emergency and Evacuation Plans
- Fire Compliance Reports
- Fire Consulting
- OHS Audits and Risk Assessments
- Hydrant and Hose Reel Reticulation

1475 ACCREDITED

- Installation and Maintenance of Fire Safety Equipment
- Servicing of Fire Extinguishers
- System Inspections
- Troubleshooting Fire Safety Equipment

FIRE DETECTION & SMOKE EXTRACTION

- Fire detection (Smoke & Heat)
- Aspirating Smoke Detection (air sampling)
- Smoke Extraction Systems
- Voice Evacuation

AUTOMATIC FIRE PROTECTION SYSTEMS

- Automatic Sprinkler Systems – Inline with ASIB
- Fire Water Supply Pump and Tank Installations
- Hydraulic Calculation
- Flow and Pressure testing

GASEOUS FIRE SUPPRESSION

- Pyroshield (clean agent)
- Novec 1230 (clean agent)
- FM200 (clean agent)

VALUED, CLIENTS TRIED, TESTED & TRUSTED



"It blocked the fire from spreading. We now consider it essential."
— Mondi Forestry Team



"We cut water usage by 90% during a wildfire incident.
Incredible product."
— Madibeng Fire Services



STEYNCITY

"The lithium extinguisher prevented a full-scale explosion in
under 3 minutes."
— Steyn City Fire Control

ENDORSED BY



ACCREDITATIONS AND AFFILIATIONS

FireBlock products are certified under multiple international standards, including:

- BSI Kitemark
- SANS 1910 & SANS 1475
- BIS (Bureau of Indian Standards)
- CE Marking
- NTA 8133-2021

These certifications underscore the company's commitment to safety, performance, and global compliance.



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