

FIREMATIC AFRICA

A Partnership Built on Safety, Innovation, and Local Excellence

25+

Years of Innovation

7

Countries



PROUDLY SOUTH AFRICAN OEM





ABOUT US

As an Original Equipment Manufacturer (OEM), Firematic Africa does more than just install- we engineer, manufacture, and support the very systems that shield critical assets across the mining, industrial, transport, and commercial sectors.

Our status as a proudly South African OEM ensures that every solution is purpose-built for the unique, rugged demands of the African landscape.

Our expansive footprint in Southern Africa is rooted in the trust of our clients, who rely on our OEM-certified expertise to protect their most vital investments: their people and their equipment.

"Quality, safety, and sustainability are more than just corporate values- they are the engineering foundation of every OEM solution we deliver."

Proven Track Record & Industry Trust

25+
Years

7
Countries

100%
Local OEM



ADVANCED FIRE SUPPRESSION TECHNOLOGY

Feature	Dry Chemical Powder	ColdFire	Novec
Primary Mechanism	Smothers chain reaction	Rapid cooling (21x water)	Molecular heat removal
Cleanup	Extensive (Messy residue)	Minimal (Biodegradable)	Zero residue (Electronics safe)
Re-Ignition	Moderate protection	Excellent (Fuel encapsulation)	High in sealed areas
Eco Impact	Standard industrial	100% Eco-friendly / PFAS-free	Zero ozone depletion



COLDFIRE: THE FUTURE OF SUPPRESSION

MOLECULAR FUEL ENCAPSULATION

ColdFire isn't just a foam; it's an organic wetting agent that fundamentally alters the environment to prevent fire from existing.

-  **Neutralizes Threat:** Strips fuel molecules of the ability to bond with oxygen.
-  **Heat Sponge:** Absorbs thermal energy instantly, protecting machinery from warping.
-  **Eco-Friendly:** 100% biodegradable and non-toxic for operators.



DCP (DRY POWDER)

DCP Powder ● 5KG to 100KG

DCP (Dry Chemical Powder) is known as the industrial "workhorse" of fire suppression, specifically engineered for the rapid knockdown of intense flames. It is a versatile solution suitable for Class A, B, and C fires, making it ideal for high-risk areas such as engine bays, mechanical rooms, and fuel storage



PROTECTION IN MINING



Mining presents the "perfect storm": tight spaces, limited ventilation, and heavy fuel loads. Our systems provide a critical tactical advantage.



Smoke Scrubbing: Solution binds to soot particles, pulling them out of the air for visibility.



Gas Neutralization: Absorbs toxic gases like Carbon Monoxide and Hydrogen Cyanide.



No Reflash: Ensures remote tunnel fires don't restart after crews leave.



THE FIREMATIC AFRICA **ADVANTAGE**

Zero-Power Activation

Non-electric, fail-safe activation triggered instantly by fire detection. Independent of vehicle electronics and batteries.

Specialized Li-Ion Mitigation

Advanced agents designed to penetrate casings and stabilize thermal runaway, preventing re-ignition in modern drivetrains.

Mining-Grade Durability

Vibration-proof fittings and high-tensile hoses engineered for the relentless vibration of open-cast mining.

OEM Integrated Compliance

Systems certified to meet SABS, NFPA, and FPASA standards without voiding machine warranties.

AGRICULTURE **DIVISION**

Protecting Harvest Assets



Agricultural fires are complex due to organic debris accumulation (sugar cane/wheat) near turbos and hydraulic bursts.

Dual-Action Synergy Solution:

-  **Phase 1: DCP Knockdown**
Interrupts the flame chain reaction for instant suppression.
-  **Phase 2: ColdFire® Cooling**
Extinguishes smoldering embers that powder cannot reach.
-  **Zero False Alarms**
Non-electric pneumatic detection resists field vibrations.

ENERGY (FUEL & GAS) **PROTECTION**



The Risk: Volatile & Thermal Friction

Fuel & Vapor Ignition: High risk of Class B liquid fires during depot loading or transit.

Thermal Friction: Mechanical failure or braking leading to difficult tyre fires.

Strategic Solutions:

- Active Tyre Monitoring: Automated in-cab alerts detect heat before ignition.
- 9L HD Extinguishers: High-capacity manual first response.
- Fixed & Mobile Asset Protection: Permanent depot systems + rapid-deployment Fire Trolleys.



MINING & CONSTRUCTION (TMM)

THE RISK

From high-utilization Bobcats to heavy Trackless Mobile Machinery (TMM), assets operate in the world’s most unforgiving conditions.



Environmental Stress: Constant high-intensity vibrations, abrasive dust, and corrosive materials.



New Era Hazards: Industry shift toward Electric/Hybrid drivetrains introduces Lithium-Ion fire risks.



Catastrophic Failure: Traditional systems are unable to handle the chemical heat of battery thermal runaway.



MINING & CONSTRUCTION (TMM)

SOLUTION

- ✓ **Zero-Power Reliability:** Accidents often wipe out electrical systems. Our systems are entirely independent of the vehicle power source, ensuring suppression triggers even if the battery is destroyed.
- ✓ **Mining-Grade Fittings:** Reinforced system fittings and high-durability red hydraulic hoses built to withstand relentless vibration and abrasive underground dust.
- ✓ **Li-Ion Mitigation:** Advanced mitigation specifically engineered for modern drivetrains, addressing the heat traditional systems cannot reach.

Protect the operator, save the machine from a total write-off, and keep the mining production line moving.



MINING & CONSTRUCTION (CONVEYOR BELT)



The Threat: A Perfect Storm

Conveyor belts face constant risks from friction, bearing failure, and dust accumulation. A single fire can stop a whole mine's production for weeks.



Intelligent Engineering

- Detection: High-sensitivity smoke & heat sensors linked to an Integrated Fire Panel.
- Activation: Automatic solenoid valve trigger processes signals instantly.
- Suppression: Rapid ColdFire/DCP discharge through a specialized nozzle network.



The Bottom Line

- Reduces catastrophic production downtime.
- Enhances site safety compliance (SANS/NFPA).
- Rigorous maintenance through authorized technicians.



INFRASTRUCTURE & DATA CENTERS

The "Water Paradox"

In electronic environments, traditional foam or water suppression is often as destructive as the fire itself, causing total equipment failure and irreplaceable data loss.

- Electrical Arcing: Overheating switchboards prone to rapid-onset fires.
- Data Integrity: Fire destroys the hardware and the data that keeps your fleet moving.
- Downtime Risk: Traditional residue prevents immediate restart.



THE SOLUTION: NOVEC 1230 SYSTEM



A "clean agent" gas that suppresses fire by rapidly removing heat. It is stored as a liquid but discharges as a gas, reaching into every corner of a server rack or switchboard.

- Total Flooding: Rapidly saturates occupied or unoccupied spaces to stop fires instantly.
- Zero Residue: No cleanup required, allowing for immediate restart and zero downtime.
- Non-Conductive: Safe for live, high-voltage electrical equipment and sensitive servers.
- Eco-Friendly: The most sustainable chemical suppressant currently available.
- Human Safe: Safe for breathing during evacuation with no choking hazards or visibility loss.



HOW FIREMATIC AFRICA ALLEVIATES PRESSURE



Minimise Downtime & Damage

Prevent fire-related downtime and costly equipment damage that disrupts your operations and impacts your bottom line



Protect People & Environment

Reduce risk to operator safety and minimise environmental hazards from fire incidents



Low Maintenance Burden

Local service and support teams ensure minimal maintenance requirements and maximum uptime



Full Compliance Assured

Meet all South African fire safety standards and regulations with professionally engineered systems





GET IN TOUCH WITH US



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