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CRITICAL EQUIPMENT FIRE SUPPRESSION SYSTEMS

MINING EQUIPMENT

“A fire outbreak can catch you offguard when least expected. Your Mining Equipments are highly vulnerable to a fire outbreak.”

CAUSES OF FIRE

- Virtually all the mobile equipment used in mining operations contains large quantities of highly flammable diesel fuel, lubricating oils, and hydraulic fluids
- The energized electrical equipment used in mining operations also presents an elevated fire risk



CHALLENGES

- Most mining equipment is operated around the clock under punishing conditions that stress mechanical and electrical components to the limit
- Material or fluids coming in contact with the hot exhaust or engine parts or an electrical fault can quickly erupt into a fast-spreading fire



IF, A FIRE IGNITES, THEN :

- Results in expensive repairs and unscheduled downtime
- Unchecked and uncontrolled equipment fire can pose a serious threat of death or injury

CAUSING

- Business downtime
- Production loss
- Revenue loss
- Infrastructure loss
- Loss of human life

REDUCE YOUR INSURANCE PREMIUM ON CAPITAL GOODS

AREAS TO PROTECT

Heavy Equipment

- Earthmovers
- Excavators
- Crawler tractors
- Haul trucks
- Tram systems

Electrical Equipment

- Substations
- Motor Control Centers
- Switchgear
- Water Pumping Equipment
- Ventilation Systems

Mobile Equipment

- Roof bolting machines
- Face cutting machines
- Crushing machines
- Scaling machines
- Diesel tractors

WEFIRE™ Solution

- WEFIRE™ system works to protect the critical assets from within. Hence the system is versatile and not bulky & requires very less gas compared to traditional systems
- The WEFIRE™ Heat Detection Tube upon detection ruptures at the hottest point forming a nozzle like opening. This activates the cylinder valves and the clean agent gas/ Powder discharges through the opening directly onto the fire
- The Tube Discharge System is ideal for areas such as control panels, however
- The Nozzle Discharge System is recommended for areas needing wider and targeted protection such as Diesel tanks and Hydraulics

Working principle - WEFIRE™ Tube Discharge System

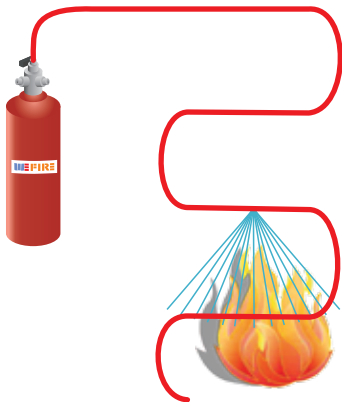
WEFIRE™ Heat Detection Tube is run across the identified hazard. This tube is then connected to the WEFIRE™ System cylinder containing the extinguishing gas. Upon detection, the tube ruptures at the hottest point, releasing the extinguishing gas on top of the fire hazard. A hooter is also provided to alert people post system activation.

WEFIRE™ recommends the use of following clean agent extinguishing gas for Mining Equipments depending on the application type within the equipment :

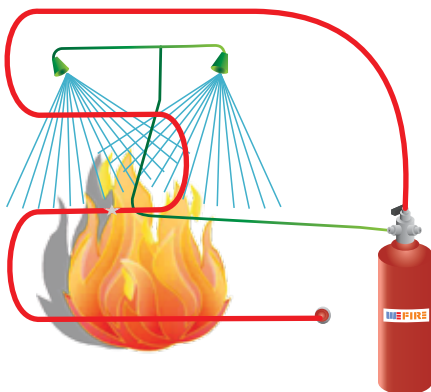
- 3M's Novec 1230 or FK-5-1-1-2 based extinguishing agent
- FM200 or HFC
- Dry Chemical Powder
- AFFF Foam

Working principle - WEFIRE™ Nozzle Discharge System

- WEFIRE™ Heat Detection Tube is run close to the identified hazard of the machinery
- Strategically placed nozzles are connected to the cylinder via piping network, above the hazard
- This ensures prompt fire knockdown upon detection. If required, the system can also be activated manually



WEFIRE™ Tube Discharge System



WEFIRE™ Nozzle Discharge System

ADVANTAGES



Simple & uncluttered design



Quick detection



24/7 Unsupervised fire protection



No electricity required



- Protects multiple critical enclosures with one system
- No clean up in the equipment required post gas discharge
- Turnaround time to re-instate the system is a few hours so minimal damage and downtime
- Can be integrated with Machine emergency, BMS, Machine shut down etc
- Virtually ZERO maintenance

ABOUT US

WEFIRE™, a brand owned by Warrier Electronics® has an experience of installing several hundreds of WEFIRE™ critical component fire suppression systems across India and parts of Malaysia.

Established in the year 2010 in Pune (India), a period when startups were looked at ambiguously, Warrier Electronics® did not just survive, but thrived and achieved various growth milestones from being a sub-dealer to a dealer to a manufacturer; and has become the default choice of various OEM's for WEFIRE™ critical component fire suppression systems, serving across India.

At the heart of the company, lies its core values viz Excellence, Innovation, Integrity and Respect. These values not only translate into a niche & a reliable end product but also in the way its team reciprocates to client needs at every step. A company is only as good as its people & product and its product reflects the quality, intelligence and excellence of its people!



WE FIRE®

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WARRIER ELECTRONICS

“Sticker House”

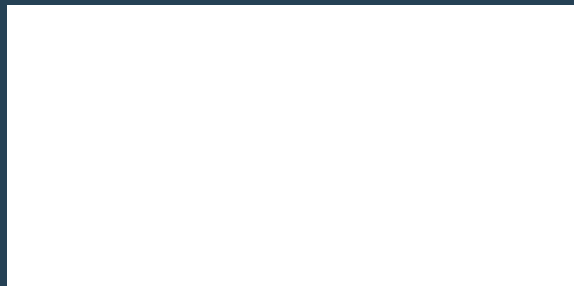
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& WE ACHIEVE WHAT WE COMMIT**