



Fire Protection Solutions for Mining

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Protecting People & Property

WORMALD



What would a major fire do to your mining operations?

Protecting People and Property

A large fire in a mine can be a serious threat. If that mine is under prepared, the consequences can be horrific. The hazardous nature and typical remoteness of mining operations makes extra vigilance in preventing and adequately preparing for fires a financial, legal and ethical necessity. For over a century Wormald has specialised in providing these solutions. Wormald is part of the Tyco group, whose Fire and Security businesses are world leaders in fire protection and electronic security products operating in more than 100 countries world-wide. This gives us access to a vast array of physical and intellectual resources.

Wormald offers total fire protection solutions for the mining industry. As one of the largest fire protection providers in our region we can provide dedicated, specialist teams for design and installation, maintenance and technical support, as well as services ranging from engineering advice to fire training and evacuation plans.

When it comes to the complexities and dangers of the mining industry, no other company has our depth of experience, knowledge, skills or technology.

We can custom design and install fire systems to match your needs and your budget or refurbish and

upgrade your existing system. Our Major Projects team are experts at undertaking large-scale fire system installations without causing interruption in industries like mining; which cannot afford to halt production.

What we can do for you

Wormald are experts in fire system installations in complex, production intensive operations like mining. Our team can survey your entire facility and provide you with a complete fire protection solution: for everything from detection and suppression systems, to fire fighting equipment and training. We can also update or inspect your existing fire protection system.

Our full range of specialised services include:

- > Risk Auditing
- > Fire Modelling
- > Integrated Environmental Design
- > Engineering
- > Compliance
- > Supply and Commission
- > Certification
- > Safety Audits
- > Fire System Maintenance
- > Fire Equipment
- > Fire Safety Training

Our work is guaranteed and we provide a full parts and installation warranty on all jobs.

*FACT: Fires and explosions in mines have been identified as one of eight key causes of over 85% of fatalities in the Australian Mining Industry over the past 15 years.**

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We can help you protect your valuable resources from fire

*FACT: Fire, particularly vehicle fires, are the second most significant cause of "high potential incidents" in Australian mines.**

Vehicle Protection

Mining vehicles are susceptible to fire for several reasons: many operate virtually non-stop and use a host of flammable liquids while generating considerable heat from engine blocks, manifolds, turbochargers and brake systems. "Mega class" equipment typically found in mines, such as excavators, haul trucks, wheel loaders and other specialised equipment, often contains hundreds of litres of hydraulic fluid, creating a sizeable source of fuel.

When a fire breaks out in a mining vehicle – whether underground or on the surface – the results can be dramatic. Expensive repair or replacement, months of downtime and, most importantly, the possibility of serious injury to the operator can occur.

Ansul, also a Tyco company, have developed a new generation of fire suppression systems for light, heavy and "mega class" vehicles and specialised mining equipment. Also Wormald's Australian designed and manufactured Heavy Vehicle Fire System (HVFS) is the only heavy vehicle system that is third-party tested and approved by the Scientific Services Laboratory (SSL), a fire protection equipment approval laboratory run by the CSIRO.

These systems effectively detect and suppress fires occurring in the engine and transmission compartments, brakes and hydraulic areas of mining vehicles. They can be engaged both automatically and manually.

Plant and Equipment Protection

As well as vehicles, we also provide effective fire protection systems for process plants, underground conveyors, static and mobile plant, draglines, workshops, substations, MCC rooms and switch rooms. This encompasses a full range of fire detection and suppression systems including automatic fire sprinklers; water spray systems; fire detection and alarm systems; evacuation warning and control systems; automatic gas flooding; Inergen[®], CO₂ and foam systems.

Frontline fire defence equipment is critical. If a mine fire cannot be contained by direct fire-fighting methods within a short time after discovery, the chances of successfully extinguishing it without sealing off the area are greatly diminished. Tested technology in the hands of skilled workers can usually minimise the impact of a fire. Wormald provide the latest in frontline fire equipment. Much of it, like our 4.5 Kg powder portable fire extinguisher, fire rated 4A:80B:E, has been specifically designed for use in mines.

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Experts teaching you how to respond in an emergency

We can install the latest in foam and gas protection systems, which have sophisticated detection and alarm systems. They suppress fires by depriving them of oxygen and some, such as Inergen[®], are harmless to people and equipment.

Life Safety & Rescue

Wormald is now the major Australia and New Zealand distributor of Scott & Sabre Breathing Apparatus (SCBA), Scott High Pressure Breathing Air Compressors, Scott Gas Detection products & Scott Thermal Imaging Cameras from Scott Health and Safety; also a Tyco owned company.

Scott is widely recognised as a world leader in the design and manufacture of respiratory protection equipment since 1945.

Wormald's Life Safety & Rescue team can supply a full line of high performance products engineered to meet the growing challenges faced by safety professionals worldwide.

Servicing

Fire protection systems require regular servicing to run at optimum performance in the event of a

fire. Our service teams will regularly test and audit your system to ensure it adheres rigorously to the required standards. Plus, we're on call day and night throughout the year to assist with servicing and maintenance. Our technicians can deal with most problems on the spot in response to your first call.

Training

The often remote nature of underground mining requires workers, at all positions within an organisation, to maintain higher skill levels in emergency response compared with workers in many other industries. Providing that training is one of our most critical services.

Correct training reduces the number of serious fire incidents and injuries, both by preventing fires and responding to them. It enhances awareness of fire hazards and promotes self-confidence in combating both underground and surface fires.

We offer a suite of training programs, from warden training to evacuation procedures, hazardous chemicals to confined space training.

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*Minerals Industry Safety and Health Centre Sustainable Minerals Institute; University of Queensland March 2005

Contact Us

Phone 133 166 | Email firesafety.au@tycoint.com | Website www.wormald.com.au