

EXPLOZERO[®]

Explosion protection system.



WHAT IS EXPLOZERO ?

ExploZero is the most advanced explosion protecting system for liquid and gaseous mediums. The system combines maximum safety with easy handling. The ExploZero system consists of non flammable synthetic fibers which are drilled into cylindrical brush elements. Besides synthetic fibers, high temperature materials can be used if needed. The single brushes are fixed together into what we call "system packs". These system packs guarantee rapid filling of large spaces in extremely short amounts of time. The system packs can be produced in a variety of shapes and sizes to fit your needs. The brush elements are flexible and can fit into every imaginable environment. Individual brushes reliably secure the tightest corners and sensitive fittings.

HOW DOES EXPLOZERO WORK ?



ExploZero may not look very impressive, but in fact, is very high-tech. The system is made up of thousands of superfine intertwining synthetic threads that create miniscule spaces which are too small for an explosion to unleash a devastating chain reaction. Additionally, the scientifically developed materials used in the brushes contribute to explosion protection.

- > The Matrix System design prevents explosion flashovers !
- > Explosions cannot unfold their devastating effects !

PETROL STATIONS – DOME & FILLING SHAFTS

Dome shafts are underground manholes where fittings and dipping equipment are located. If connectors are inappropriately handled or leak, petrol fumes can escape. Escaped petrol fumes, which are heavier than air, collect at the bottom of the manholes and in the presence of an ignition source (indirect lighting, fire,...) those petrol fumes will cause explosions.

The average size of a dome shaft is approximately 1.5m³. Explosions in dome shafts are under extreme pressure and dome shaft lids have been catapulted dozens of meters through the air during explosions. Many accidents have been observed in the last few years because of unsecured dome shafts.



Those accidents are now a thing of the past !



ExploZero was specially designed for new requirements at fuel stations. Current laws as well as economical aspects have been carefully implemented. Since April of 2011, we have implemented a fully automatic production system. Currently, our manufacturing plant operates in two shifts which enables maximum output at the lowest costs to our customers.

<< Perfectly filled & secured dome shaft

LEGAL SITUATION

Since the beginning of the new millenium, more emphasis has been placed on potential explosion dangers. The ATEX95/137- EU- directives require steps be taken at the work place where explosions may occur. These directives are painstakingly monitored by authorities, fire departments and the Labor Inspectorate. This regulation is valid in all European countries and is already harmonized in most of the member states. Most European countries have additional regulations to the above act. Those additional regulations describe and regulate the storage of petrol and hazardous fluids in detail. Newly created laws demand consistently filling the shafts with explosion protection material. Most materials which were used in the past (sand,clays, leca,...) are already forbidden !

The transition period for some filling materials is ending soon !
Only ExploZero guarantees future-oriented approvals !

Employers are required to evaluate their working places regarding the dangers of explosions and create documents on how these dangers will be avoided.
A non compliant implementation of the regulaiton will lead to a complete shut down of the facility !

OFFICIAL CERTIFICATION – NOTIFIED BODIES

We commissioned three independent institutes to determine the effects of ExploZero.

TÜV Austria
Physikalisch-Technische Bundesanstalt, Brunswick Germany
IBExU – Institut für Sicherheitstechnik, Germany



ExploZero passed all the tests and received an international release !

The only system with ATEX type certificate !

ADVANTAGES OF EXPLOZERO

Compared to conventional sand or gravel, ExploZero saves time and money. The super light packs can be installed in the shaft up to 4 times faster. Removing them for service access is easily 50 times faster. The material is completely wear and corrosion proof. In cold weather, ExploZero is a step ahead of it's competitors since it won't freeze. Even cleaning is easy. Simply use a steam jet pressure washer and ExploZero is as good as new.

Best price-performance ratio ! Guaranteed !

- > First ATEX compliant explosion protection.
- > Fulfills the requirements of all latest laws !
- > Fast and easy insertion of the super light packs.
- > Maintenance costs are reduced to a minimum !
- > Inspections, repairs and maintenance activities can be done within a short time.
- > No damage to fittings, measuring instruments or cables.
- > No corrosion caused through bounded humidity.
- > No disposal costs if fuel leaks out (compared to gravel).
- > Calculable amortization through long life guarantee.
- > Environmentally friendly.

MAY WE PROTECT YOU ?