

Wind Turbines | Electric Cabinets | Transformers | Others

Revolutionary Fire Suppression Systems



Made in Germany





ROBUST - PATENTED - UNIQUE!

The need for simplicity and robustness, makes Detexline Electric the leading solution for demanding conditions Fire Suppression

Reliability and low maintenance. Trusted by leading wind turbine manufacturers

















Efficiency & Robustness

#TIDOREX

The power of liquid extinguishing agent

A large amount of fine droplets of liquid agent is sprayed through the special patented nozzles forming a huge cooling reaction surface. Thus, the fire will be quickly deprived of thermal energy, leading to a rapid temperature drop. The cooling effect breaks the reaction necessary to support combustion.

In addition, after the entire extinguisher has been dispensed, nitrogen propellant gas will be discharged from the patented container, resulting in a hybrid suppression system, also ensuring fire sufocation.

Sector by Sector Protection

100% Stainless Steel

No plastics in the core system



LIQUID FIRES

Fuel, lubricant and hydraulic fluids

SOLID FIRES

Plastic, rubber, wood, sawdust, wires, cables

ELECTRICAL FIRES

Electrical cabinets, substations, transformers and other equipment









Fully Pneumatic self-contained / no corrosion

Perfect for Off-shore wind turbines

Thanks to maintenance-free and stainless steel components.





Multiple configurations with One system

Effective on:

Open doors / ventilated cabinets









Single-line system (det-ex)

Detection and extinguishing in a single pipe line.



No Pressure

The extinguishing agent container is made of stainless steel and is pressure-free in the operating state. The tubing is also pressureless.



No Electricity

No electricity needed in the system.



10 Years - No parts change

Long savings - durable and resistant parts.



Ultra-fast detection

Response speed: Ultra Fast Response RTI 12. False alarm proof. Based on "temperature" parameter for pneumatic activation.

Possibility of multiple temperature ranges in a single system. 57 °C | 68 °C | 79 °C | 93 °C | 110 °C | 141 °C | 182 °C | 230 °C | 260 °



Operation temperature range: -50°c to 80°C

Prepared for extreme climates, whether in the desert or in the mountains



Capable of working in extreme conditions

Shock and vibration resistant.



Stainless steel

Precision manufacturing - highly durable stainless steel.



Very low maintenance

Due to the absence of pressure and simplicity, maintenance routines are practically only visual.



Fully Mechanical / Pneumatic

The entire system is self-contained. It does not require manual operations and does not depend on external controls, such as control panels or electrical detectors.

Operates in highly ventilate places and in open spaces











Almost maintenance-free for 10 years:

No need for the usual annual maintenance as it is not pressurized

No False Alarms:

Patented, accurate and reliable detection system

Make your own maintenance:

Your own staff - no need for external companies

It can be reinstalled in different vehicles:

Easy and fast installation.

How it Works

The detexline tank and piping network are not pressurized

The SPY detectors will be activated by thermal detection, thus releasing the pressure in the pipeline and cylinder control valve, which in turn will trigger the release of the extinguishing agent. Fine spray nozzles will disperse the Tiborex Absolute providing the cooling effect and effectively extinguishing fires within the first few

It can be manually activated remotel

An alarm and test button can be installed

Name	detexline Electric
Temperature Range	-50°c / -30°c to 80°c
Detection Technology	Rise of Pressure
Detection and External Line	One integrated line
System Pressure	No pressure
Detection Technology	
Trigger Temperature	Glass ampoule, 9 independent temperature
Life of Detectors	
Nozzle Type	S1
Extinguishing Agent	
Extinguishing Agent Volume	4, 7, 14, 24L
Extinguishing Technology	
Extinguishing Container (pressure)	Pressureless (Sealed Cartridge)
Product Material	Stainless steel
Alarm Signal Switch	Yes
Maintenance Inspection	Annually
Parts Replacement Duration	10 years

Certifications for protecfire various systems:

























System Components



SPY thermo-pneumatic detector

Unique patented detector
No electricity required
High-finish stainless steel
Response speed: Ultra Fast Response RTI 12
Available detection temperatures:
-57°C -68°C -79°C -93°C -110°C -141°C -182°C -230°C 260°C



Directional Valve

Ability to redirect the extinguishing agent only to the place that activated the detector. In this way, the extinguishing agent will be directed more accurately and without waste.



Compact Fast to Install



Fine-Spray Nozzles

Unique patented nozzle solution

Quick and easy to install - Reduces installation time by ~70%.

Very small - Virtually fits anywhere

Stainless steel

S1 factor 0.5 - Fine spray technology

Up to 90° spray pattern High quality, heavy-duty nozzle caps



Pneumatic Manual Actuator

Unique patented pneumatic activation system Stainless steel Safety locking system Argon gas activation

Extinguishing Agent Tank

Patented - Unique Pneumatic Release System Can be placed in any position! Stainless steel with electrostatic paint finish Ral3000 Patented - Stainless steel actuation system

Liquid Agent: Tiborex Absolute - exclusive protecfire agent Effective against liquid, solid and grease fires.





TIDOREH NEW AND ABSOLUTE PREDATE SUltra fast exti

ultra fast extinguishing





Extinguishing Agents Comparison	TiboRex Absolute	Water	Foam	Powder	Gas
Fast Temperature Reduction	+	-	-	-	-
Surface Blanketing	+	-	+	-	-
Quenching Effect	+	_	+	-	+
Fine-Spray Technology	+	+	-	-	-
Fluorine Free	+	+	-	-	+
Temperature Range -50°c to +80°c	+	-	-	+	_
Danger to Persons	+	+	-	-	-

Ultrafast extinguishing

Quenching effect

removing heat, hence no combustion or fire in

Residue monitoring and guaranteed quality

Residues of the extinguishing agent on the object can be identified with the help of ultraviolet light. A chemical analysis (DNA) can verify and confirm that the original TiboRex Absolute was used.

Ultrafast cooling

Enormous reduction of surface temperature. Avoidance of re-ignition. Reduced effect of fire.

Blanketing fat and oil fires

the fire and protecting the hot fat or oil from re-ignition by cooling them down very quickly.

Environmental friendliness

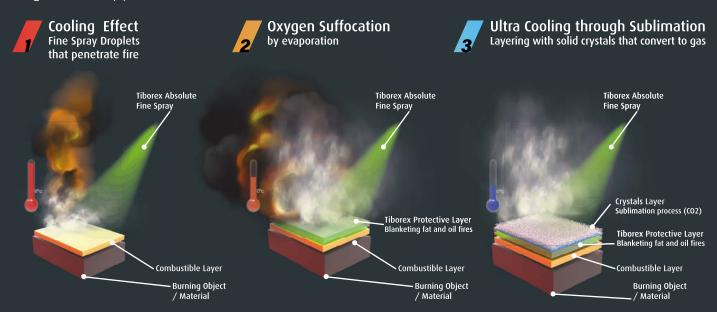
The cooling effect

The enormous cooling effect of TiboRex Absolute is mainly based on two physical properties:

Cooling effect due to water evaporation: The fine-spray nozzles developed specially for TiboRex Absolute produce very fine droplets, smaller than 100 µm, when discharging the extinguishing agent. As a result, ultra-fast evaporation of the liquid share in the extinguishing agent is achieved. Due to the required enthalpy of evaporation of 2.26 MJ/kg (equivalent to 1 litre of water) energy is extracted from the burning object in a minimum of time and it cools down substantially.

Cooling effect due to sublimation: During the evaporation of the aqueous phase some of TiboRex Absolute's main components form crystalline structures. With the still existing combustion temperature, these solid structures change from the crystalline phase to a gaseous phase. The enormous enthalpy of evaporation (heat) required for this amounts to 7.23 MJ/kg.

3 stages fire suppression











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