



**Fipron Canarias**



## **FIPRON: Innovative Fire Protection Solutions**

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## About Us

We present to you an international group of companies working with FIPRON products, registered in the USA, with international certifications and test protocols, which include FIPRON GLOBAL, FIPRON CANARIAS, SALEN EXSTRA, FIRESI.



# Global Presence and Expertise



## Invention

Creating advanced fire-fighting technologies for over 15 years



## Manufacturing

Main manufacturing facility located in Brno, Czech Republic



## Distribution

Offices in Russia, Turkey, Czech Republic, and the Canary Islands (Spain)



## Research

Collaboration with over 30 research centers and laboratories worldwide



## FIPRON CORD Technology

### Revolutionary Approach

Thermally activated microencapsulated extinguishing agent in an aerosol-forming shell

### Extreme Characteristics

Functions at temperatures from  $-50^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  with up to 80% humidity

### Intelligent System

Works autonomously without human intervention





# INNOVATIVE FIRE EXTINGUISHING TECHNOLOGY

Devices of various sizes, made in the form of a sticker or cord, using FIPRON™ technology, will be in "standby mode" for five years, and as soon as a fire occurs, it will automatically activate to extinguish it in the place where it is installed, thereby extinguishing the fire and preventing its further spread. To date, FIPRON has created various composite materials capable of suppressing fire. These materials include microcapsules with an environmentally friendly fire retardant composition enclosed within each capsule. When the activation temperature is reached, the microcapsule shell bursts, and the fire extinguishing agent is released. FIPRON™ products serve as an additional layer of safety to existing fire extinguishing systems, providing protection for electrical panels and electrical equipment, partially analogous to how automotive airbags provide safety for drivers and passengers in the automotive industry. FIPRON™ products can be easily installed in any electrical box or outlet of any type, located in buildings, vehicles, buses, trains, and anywhere there are electrical wires.

FIPRON™ cord and FIPRON™ stickers are designed to extinguish Class A, B, and E fires.



# Rapid Fire Response

1

## *Fire Detection*

*System detects heat from fire at the earliest stage*

2

## *Activation*

*Temperature exposure triggers release of fire extinguishing component*

3

## *Fire Extinguishing*

*Fire is completely extinguished within 10 seconds*

4

*FIPRON products can be installed without interfering with electrical structures*

5

*Unique product can be used in any industry*





## MICROCAPSULES

Microencapsulation technology is well known and widely used in many industries, but FIPRON™ technology is the first example of the application of microencapsulation technology in the field of fire extinguishing. Inside FIPRON-based products are tens of thousands of microcapsules that store an environmentally friendly fire extinguishing agent and provide fire extinguishing when the temperature they are designed for is reached. The polymer shell of the microcapsules keeps the fire retardant in working condition for five years after installation and is destroyed only at a certain temperature, releasing the fire extinguishing agent and turning each individual microcapsule into an autonomous micro fire extinguisher.

# ABOUT PRODUCTS

All FIPRON™ products have unlimited application areas, as they can be applied in any field or anywhere there is an electrical connection. Being miniature in size and ranging from FIPRON™ STICKER to FIPRON™ CORD, they allow protecting large areas. FIPRON™ products can be installed in wall sockets, electrical panels, control panels, server rooms, computer workstations, televisions, refrigerators and many other consumer goods. FIPRON™ CORD can be easily installed in small, medium and large electrical boxes, which have no other alternative for fire extinguishing. The installation process is very simple and does not require any changes to the existing electrical equipment or hose watering, making it the most cost-effective addition to existing fire extinguishing systems. The possibilities for commercial use are practically limitless thanks to the extensive electrical wiring networks. Public places such as schools, universities, hospitals, shopping malls, museums, warehouses, and production facilities

FIPRON™ CORD extinguishes inflammation source at early stages of fire, prevents distribution of fire beyond limits of a protected space, and excludes repeated ignition in the protected system for over 30 minutes. Due to its elasticity it is simple in installation, does not require power source, and remains in stability mode for over five years without any maintenance.

FIPRON™ CORD is enclosed in a high temperature resistant gas permeable mesh to ensure its mechanical strength, maintain elasticity and integrity, while allowing for the active ingredients to be released throughout its length at activation.



FIPRON™ CORD is safe for the environment and does not deplete ozone layer.



### FIPRON CORD

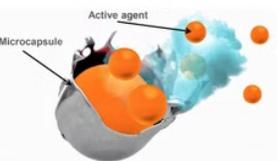
<b>CORD MS</b>	1 meter protects Volume of up to 50 liters Recommended for use in volume of up to 200 liters
<b>CORD 1</b>	1 meter protects Volume of up to 100 liters Recommended for use in volume of up to 400 liters
<b>CORD 2</b>	1 meter protects Volume of up to 200 liters Recommended for use in volume of up to 800 liters
<b>CORD 3</b>	1 meter protects Volume of up to 300 liters Recommended for use in volume of up to 1,200 liters

FIPRON™ CORD is a flexible cord used as a fire suppressing product, intended to protect against fire in a confined space of electrical boxes having a rating IP20 or higher. FIPRON™ CORD should be installed inside of a protected electrical box above where a potential short circuit, overheating, spark formation, or fire may occur.



Activation temperature 120 °C  
Accepted humidity up to 90%  
Working temperature range: -50 °C to +80 °C

Warranty period: 5 years after installation



**Active agent**

**Microcapsule**

FIPRON™ STICKER is an autonomous fire suppressing product which contains a thermally activated microencapsulated fire suppression agent FIPRON™. It is a fundamentally new solution designed specifically to protect from fire occurrences in electrical sockets, connectors, and electrical boxes having a rating IP20 or higher and a volume ranging from 0.5 to 10 liters.

FIPRON™ STICKER operates as an intelligent and autonomous fire suppression system and automatically activates at 120 °C at which point microcapsules burst and release fire suppressing agent FIPRON™ to extinguish a fire.

FIPRON™ STICKERS are flexible, easily installed in confined spaces, have different bending radius, lightweight and can be used in a temperature range between -50 °C to +80 °C.

The contents of the microcapsules are a gas extinguishing agent 3M™ Novec™ 1230 FIRE PROTECTION FLUID (FK-5-1-32; CF3K2C2DF2CF2); 1,1,1,2,2,5,5,5-hexafluoro-4-(difluoroacetyl) 3-propanone, which does not contain ozone-depleting substances.



### FIPRON™ ADVANTAGES

- Innovative technology
- Does not require a power supply
- Suppresses fires of classes A, B, and E
- Protects equipment by suppressing fire at source
- Fully autonomous and no maintenance is required for five years



- Flexible in size and easy of installation allows for FIPRON™ Cord and FIPRON™ Sticker to be installed in hard to reach places.
- Wide range of operating temperatures from -50 °C to +80 °C and humidity of up to 90%.
- Easy installation due to its form and does not require alterations to the existing equipment.

### FIPRON




### FIPRON STICKER

**P**  
85 x 85 mm  
Up to 8.5 liters



Activation temperature 120 °C  
Accepted humidity up to 90%  
Working temperature range: -50 °C to +80 °C

Warranty period is 5 years after

**15**  
85 x 85 mm  
Up to 15 liters

**25**  
85 x 110 mm  
Up to 25 liters



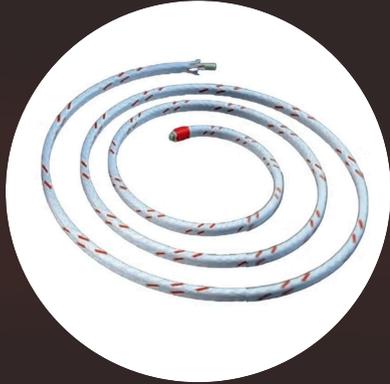
FIPRON™ STICKER P is a plate type fire suppressing product, intended to protect against fire in a confined space of electrical boxes having a rating IP20 or higher. FIPRON™ STICKER P will protect electrical box having a total volume of up to 8.5 liters and FIPRON™ STICKER 15 will protect electrical box having a total volume of up to 15 liters and FIPRON™ STICKER 25 will protect electrical box having a total volume of up to 25 liters.

FIPRON™ STICKER 15 and 25 should be installed inside of a protected electrical box above where a potential short circuit, overheating, spark formation, or fire may occur.

Activation temperature 120 °C  
Accepted humidity up to 90%  
Working temperature range: -50 °C to +80 °C

Warranty period is 5 years after installation

# OUR PRODUCTS



## FIPRON CORD

The innovative fire extinguishing system with thermally activated microencapsulated extinguishing agent in an aerosol shell FIPRON CORD (hereinafter referred to as the product or FIPRON CORD) is a fundamentally new extinguishing agent designed to extinguish fires of classes A2, B and equipment under voltage in small-volume protected objects without human intervention 4000 dm<sup>3</sup> (electrical panels, cabinets with electrical equipment, cable ducts), located in rooms with a working temperature from minus 50 °C to plus 80 °C and a humidity of no more than 80 percent.



## FIPRON STICKER

FIPRON STICKER is a miniature, autonomous, local fire extinguisher. It is designed to protect against ignition in electrical outlets, distribution boxes, power distribution panels, electrical cabinets and other electrical equipment with limited space from 0.2 to 60 dm<sup>3</sup>.

FIPRON STICKER is effective for extinguishing fires of classes A, B, C and is designed to protect any electrical connections. Its operating temperature is 120°C, and the range of normal ambient temperature is from -50°C to +80°C at a relative humidity of 90%.



## FIPRON CANARIAS BOX

*FIPRON CANARIAS Box:*

*additional protection for connectors for connecting solar panels and solar panel arrays. It is designed to protect electrical connections from fires, as well as to provide additional protection against the destructive effects of environmental factors (rain, snow, ultraviolet radiation, dust, dirt, etc.) on electrical cables." FIPRON CANARIAS Box is a box made of durable fire-resistant plastic, inside which there is a fire extinguishing product.*



## AEROSOL

Portable aerosol fire extinguisher

A new generation of portable aerosol fire extinguisher, consisting of an extinguishing agent, allows you to effectively extinguish flames of types A, B, C, E, F.

The latest mobile fire extinguisher, effective, can be operated with one hand. The latest portable fire extinguisher based on aerosol technology, the extinguishing range is 1-2 meters. Frse-F5 is very useful in the initial stage of a house fire, as well as in cars, vans or on board boats and yachts.

# Safe and Sustainable Protection

## Fully Autonomous

Maintenance-free for five years.  
Self-activating without human intervention.

## Safe for People and the Environment

Non-toxic formula. Does not harm the ozone layer.  
Environmentally responsible.

## Safe for Equipment

Does not damage high-tech equipment. Simple recovery process through ventilation.

## Product Advantages and New Innovations

### FIPRON CORD Features

Flexible base for installation in hard-to-reach areas  
Automatic activation without electrical connection  
No false triggers  
Lightweight for easy transportation

### 2024 Innovations:

FRSystem LP Li: Protection for lithium-ion batteries  
FRSystem LP R: Protection against fires in fryers/hoods  
FRSystem LP M: Suppression of Class D fires with metallic combustible materials

### 2025 Innovations:

Special protection for trees against fires



## Specialized Applications

The FIPRON team is constantly working on new developments for the highest quality fire protection, the introduction of innovative fire-fighting equipment and specialized systems for the effective extinguishing of oil and petroleum product tanks, for the protection of high-tech data processing centers such as data centers, data processing centers, battery storage, nuclear, wind, solar and hydroelectric power plants, critical infrastructure, and cooperates in this area with government agencies in many countries around the world to protect critical infrastructure.







## Global Partners and Expansion



We are expanding across Europe, the Americas, Asia, and the Eurasian Union.

Our growing client list includes SIEMENS, ORLEN gas stations, and we are in active negotiations with TESLA and SKODA.