

**FIPRON**



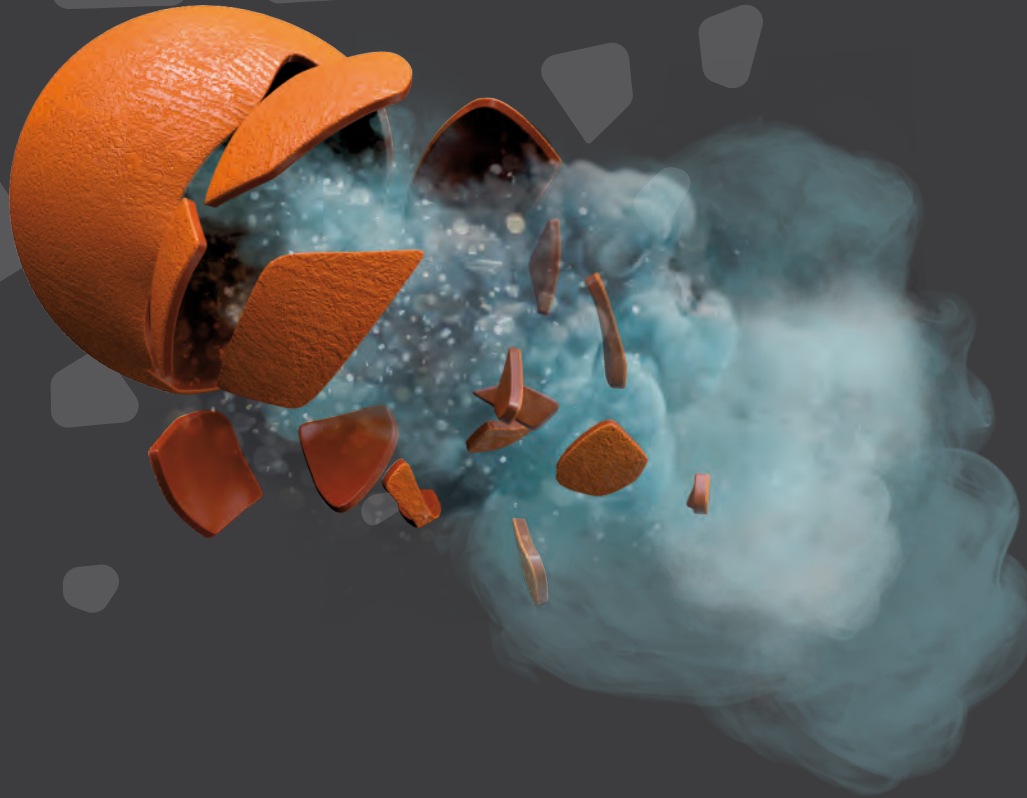




## INNOVATIVE TECHNOLOGY OF FIRE PREVENTION

A device of any form and size made by this technology can remain for many years in "standby mode" and automatically extinguish fire in a place where it occurs, without letting it develop into a fire.

Today various composite materials have been created by FIPRON technology capable of suppressing fire. The structure of such materials includes microcapsules with fire retardant agent confined within. When the activation temperature is reached, the microcapsule shell explodes and the liquid in it discharges the extinguishing agent as gas. The concentration of  $O_2$  in the environment decreases, the extinguishing gas concentration increases. Heat is absorbed by cooling effect and fire formation is prevented.

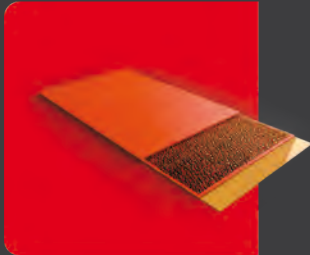


## MICROCAPSULES

The technology of microencapsulation is well known and widely used in many industries. FIPRON technology is the first ever example of microencapsulation technique applied in the field of fire extinguishing. Inside of all of the FIPRON based products there are tens of thousands of microcapsules that store fire extinguishing agent and insure fire suppression when the temperature they are designed for is reached. The polymeric shell of microcapsules retains the fire retardant compound in working order for many years and destructs strictly on reaching the set temperature, releasing fire suppression agent and making each individual microcapsule a micro stand-alone fire suppression device.

## COMPOSITE MATERIALS

FIPRON technology allows creation of highly effective multipurpose standalone fire extinguishing compounds and materials. Fire extinguishing paints, powders, foams, adhesive elastic plates and tapes, solid and plastic multilayer composites made using FIPRON technology applied in many industries worldwide. Any product or a composite material created with application of FIPRON technology represents a technological breakthrough unmatched in world practice of fire suppression.



## **STICKER**

FIPRON Sticker is a miniature self-contained, automatic local fire suppression installation, designed with application of FIPRON technology. It was invented as protection against the exacerbation of electrical sockets, distribution boxes, power distribution panels.



## **CORD**

Developed with FIPRON technology; is an innovative, self-contained fire-fighting product. When the activation temperature is reached, the extinguishing agent is activated and fire protection for devices with a specified volume.



## **PAINT**

FIPRON PAINT is an innovative multipurpose fire suppression product, designed with application of FIPRON technology. It is advantageous with its ease of application and its application to various small volumes.

# FIPRON





#### FIPRON Products;

- They are designed to prevent electric-based fires in the initial phase and are products that meet the criteria and standards.
- There is no need for warning signal, feeding and storage for activation.
- It does not require an electrical warning system as it operates automatically.
- With simple and reliable operation can be used in conjunction with standard fire alarm systems and automatic fire extinguishing systems.
- It does not create a concentration of hazardous substances in the environment outside the protected area.
- Provides security of life and property against fire.
- It does not damage equipment and employees.

# FIPRON STICKER

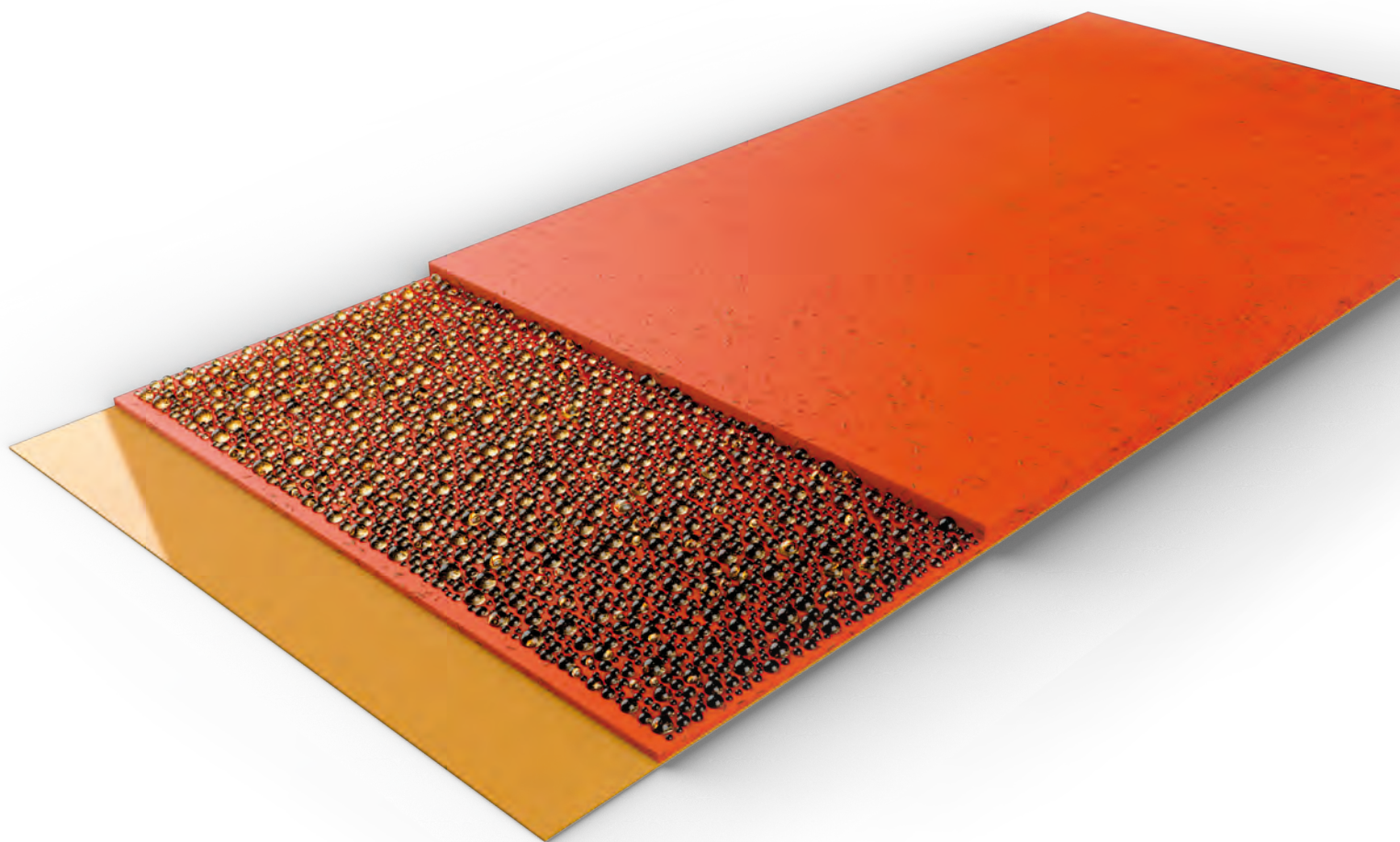
FIPRON Sticker product line includes models **P, 15, 25, 45, 60**.

FIPRON Sticker is a flexible plate of composite fire suppressing material carried by self-adhesive substrate.

It protects electrical equipment from 0.2 to 60 liters of volume from fire risk.

It is used by gluing horizontally to the inner ceiling of the volume to be protected.

When FIPRON Sticker reaches the activation temperature, it releases the extinguishing agent and prevents the fire from starting. Since this substance is ozone-friendly, it can be used in industrial facilities, residences and various areas.



## STICKER Series **Sizes** And Protection Areas (liter)

<b>P</b>	<b>30x30 mm</b> Up to <b>0.2</b> Liter	<b>15</b>	<b>45x85 mm</b> <b>0.2 - 15 l</b>	<b>25</b>	<b>65x110 mm</b> <b>15 - 25 l</b>	<b>45</b>	<b>90x130 mm</b> <b>25 - 45 l</b>	<b>60</b>	<b>90x190 mm</b> <b>45 - 60 l</b>
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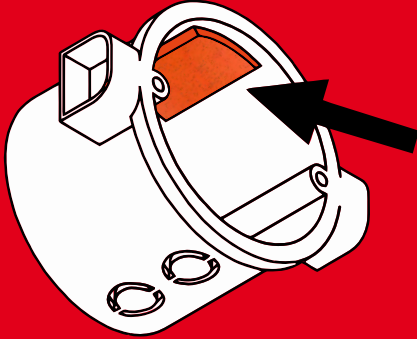


### Fipron Sticker Intended use

Low voltage systems, 50 V - 1000 V. 60 liters of volume.

- **Electrical installations of buildings and structures**  
Electrical board and cable channels, distribution boxes, power supplies etc.
- **Electrical devices and household appliances**  
Audio and video equipment, radio and television.  
Personal electronic computers (PCs), server equipment.  
Low voltage equipment connected to personal computers.  
Power supply units, chargers, voltage stabilizers.  
Lighting equipment and light sources.
- **Industrial and branch electrical equipment**  
Electrical distribution devices.  
Protected low voltage devices. (Cabin, panel, box type)  
Electrical boards and control boards.  
Tele-mechanical devices.  
Control boards on railways.  
Automatic working places of railway transportation compartments.  
Automatic systems where efficient control of technological processes is desired.  
Electrical components of machinery and equipment.  
Machining equipment, machinery, mechanization of small operations.



**P**30x30 mm  
10 PiecesProduct Code  
S-P-10-3030

Electrical outlets; short circuit, overheating or use to prevent fires as a result of spark.

It is used by removing the adhesive tape and sticking it to the top of the enclosure. It is recommended for IP20 protection class and prevents electrical fires. They do not require maintenance. Electrical sockets and switches, connection boxes, closed parts of lighting fixtures, relay boxes, electric motor junction boxes etc. It is used to prevent the flammability of small size electrical devices such as.

Activation temperature 120 °C

Enclosure temperature range: -50 to + 80 °C

The warranty period: 5 years

**15**

45x85 mm

Product Code  
S-15-01-4585**25**

65x110 mm

Product Code  
S-25-01-65110**45**

90x130 mm

Product Code  
S-45-01-90130**60**

90x190 mm

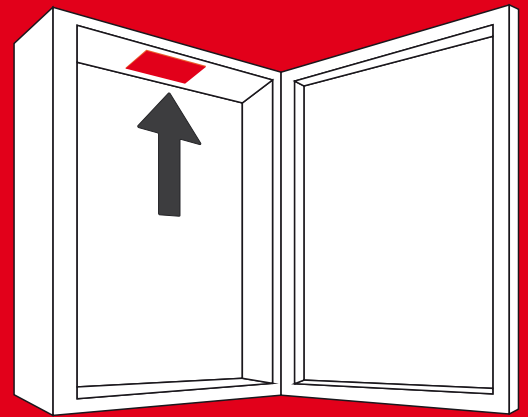
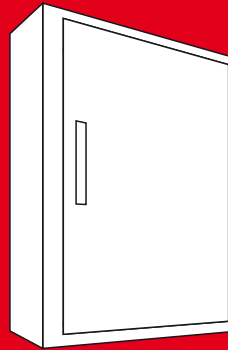
Product Code  
S-60-01-90190

Power distribution panels; They are effective in the prevention of electrical fires in volumes between 15-60 liters. They are recommended for IP20 degree of protection. The numerals of the FIPRON Sticker index refer to the volume in liters.

Activation temperature 120 °C

Enclosure temperature range: -50 to + 80 °C

The warranty period: 5 years



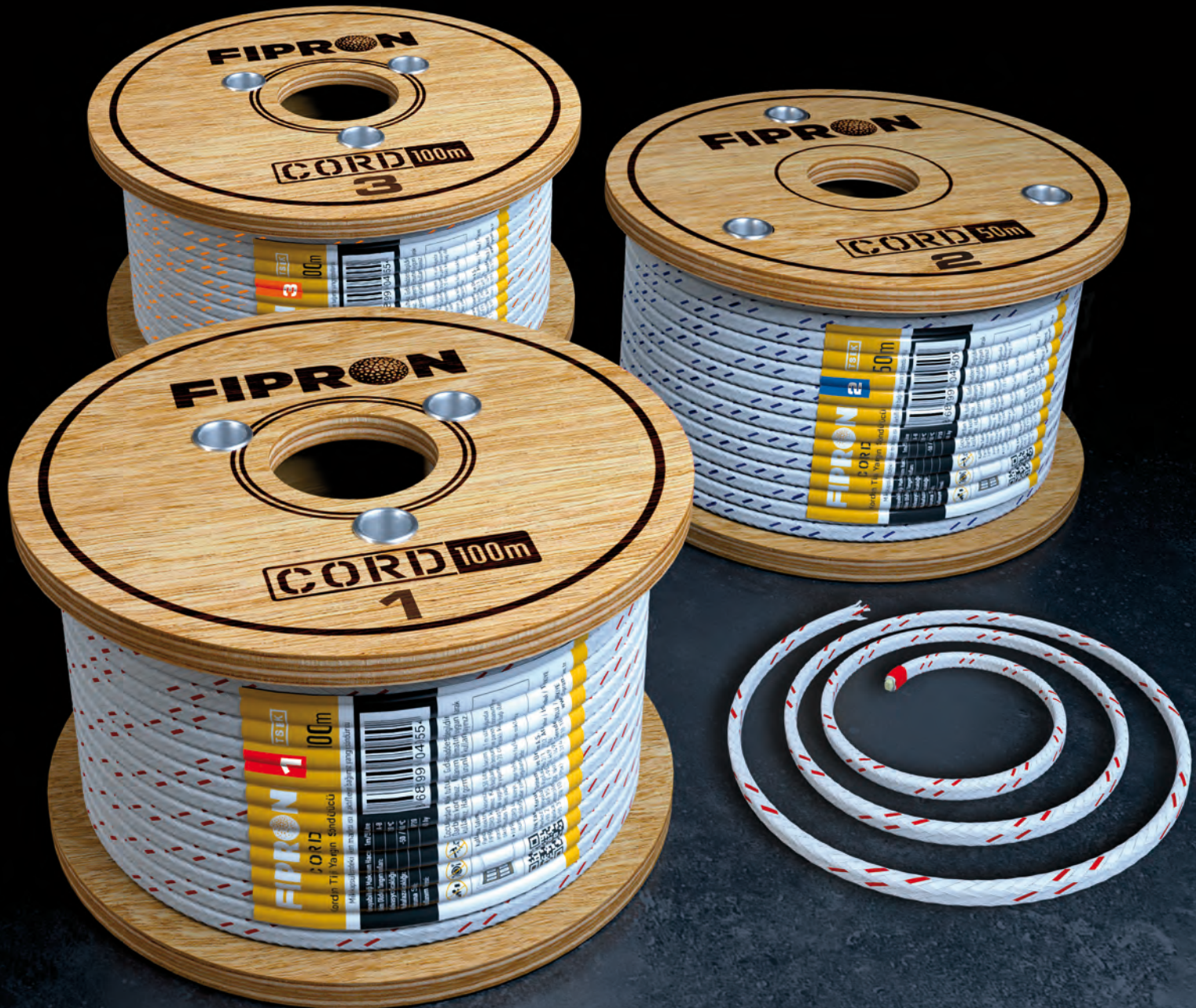
FIPRON Sticker is produced in accordance with TSE-K 526 Criteria.

# FIPRON

# CORD

FIPRON CORD product line includes models **CORD 1**, **CORD 2**, **CORD 3**

FIPRON CORD is a composite material with microcapsule mixture with heating compound. By calculating the volume of the area to be protected, the required amount of cord is used by placing it on the spots considered as potential sources of ignition.



FIPRON Cord is produced in accordance with TSE-K 527 Criteria.



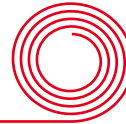
1 meter of FIPRON CORD can cover from 50 to 300 liters of enclosed space and may vary depending on the interior design of the protected area. At any point on the FIPRON CORD, with the effect of flare up, activation starts as a result of warming and the active substance is released in the gas phase and prevents fire.

FIPRON CORD is coated with a high temperature resistant gas permeable mesh to ensure the mechanical strength of the product and to maintain the solid products of the reaction. Also, high temperature resistant mesh; It has an important functional feature by influencing the rate of release of active substance along the length of the product.

Product Code  
Packing 5m: C-01-005-50  
Bobbin 50m: C-01-050-50  
Bobbin 100m: C-01-100-50



From 50 to 300 liters



Product Code  
Packing 5m: C-02-005-150  
Bobbin 50m: C-02-050-150  
Bobbin 100m: C-02-100-150



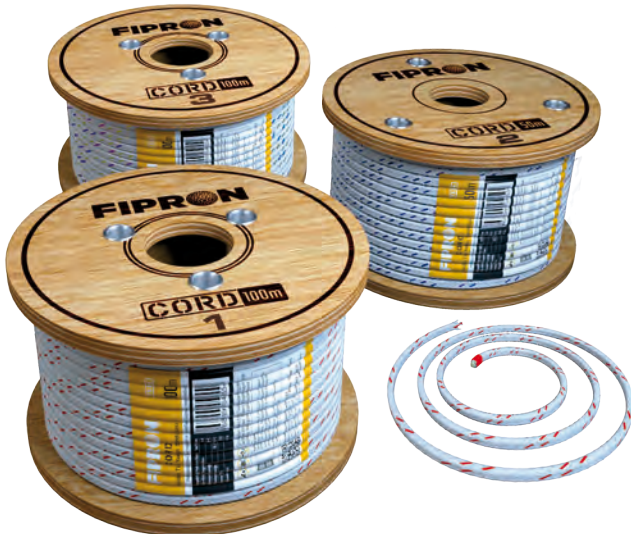
From 150 to 750 liters



Product Code  
Packing 5m: C-03-005-300  
Bobbin 50m: C-03-050-300  
Bobbin 100m: C-03-100-300



From 300 to 2000 liters

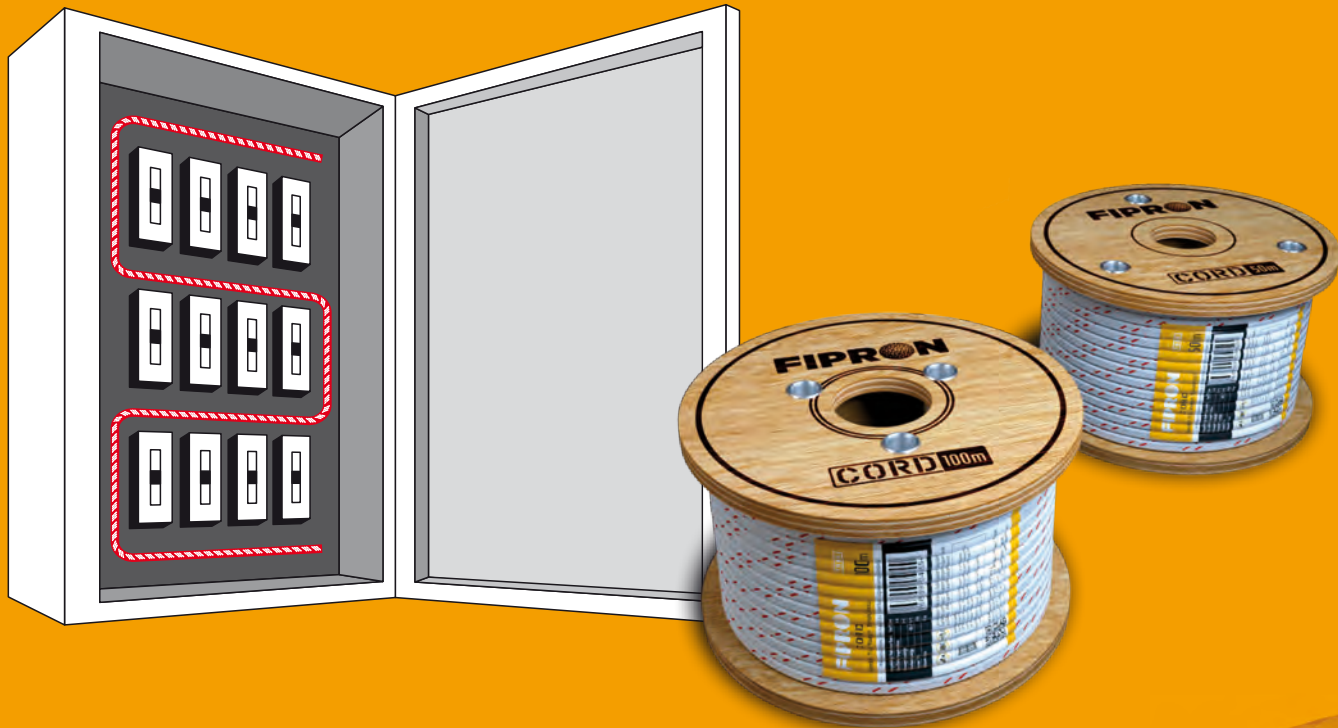


50 m and 100 m Bobbin and 5 m in the package.

Activation temperature 120 °C - 150 °C

Enclosure temperature range: -50 to + 80 °C

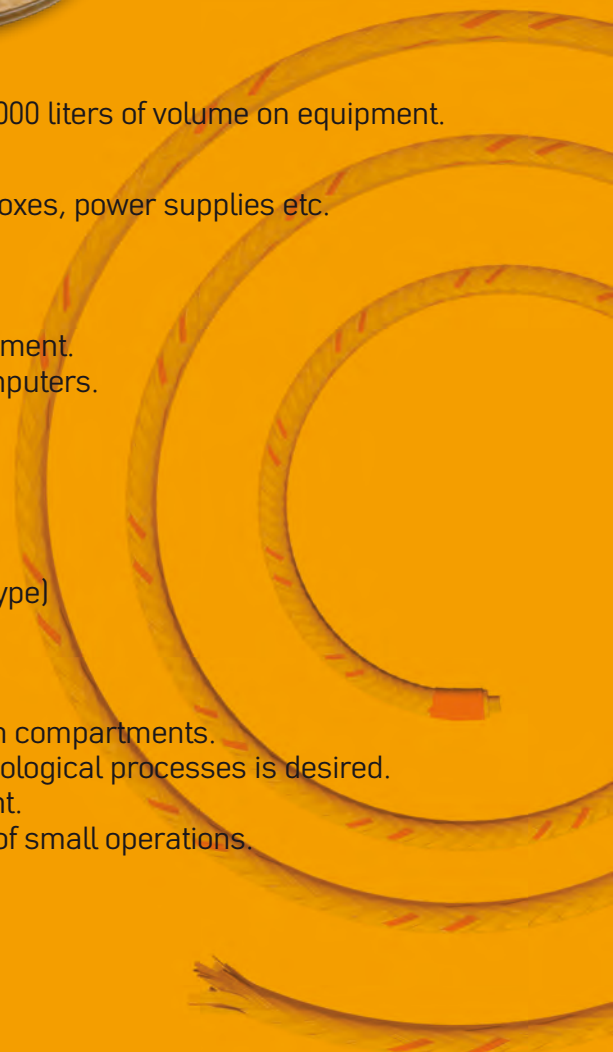
The warranty period: 5 years



**Fipron Cord Intended use**

Low voltage systems, 50 V - 1000 V. Between 50-2000 liters of volume on equipment.

- **Electrical installations of buildings and structure**  
Electrical board and cable channels, distribution boxes, power supplies etc.
  
- **Electrical devices and household appliances**  
Audio and video equipment, radio and television.  
Personal electronic computers (PCs), server equipment.  
Low voltage equipment connected to personal computers.  
Power supply units, chargers, voltage stabilizers.  
Lighting equipment and light sources.
  
- **Industrial and branch electrical equipment**  
Electrical distribution devices.  
Protected low voltage devices. (Cabin, panel, box type)  
Electrical boards and control boards.  
Tele-mechanical devices.  
Control boards on railways.  
Automatic working places of railway transportation compartments.  
Automatic systems where efficient control of technological processes is desired.  
Electrical components of machinery and equipment.  
Machining equipment, machinery, mechanization of small operations.



# FIPRON

# PAINT



An innovative, multi-purpose fire prevention product designed with FIPRON technology, is a fire-inhibiting polymer coating.

Fire prevention is provided by microcapsules inside the product. Mostly designed for industrial applications. Viscosity, adhesion, working temperature etc. It can be adjusted according to requirements and applied to surfaces by any standard method. Thus, it gives fire protection ability to any surface.



## FIPRON

### TSE Criterion of Conformity and ISO 9001:2015 Documents

**ACM** **UKAS**

### Certificate of Registration

Bu sertifika ile

**FPN YANGIN KORUMA SİSTEMLERİ VE ÜRETİM A.Ş.**  
ÇAYIRYOLU CAD. AY PLAZA NO: 2/1 34752  
ATAŞEHİR / İSTANBUL / TÜRKİYE

DEMİRCİLER OSB NO: 17/1 14900  
CEREDE / BOLU / TÜRKİYE

Kalite Yönetim sistemi tetkik edilmiş ve aşağıdaki standartın gerekliliklerine uygunluğu tespit edilmiştir:

**ISO 9001:2015**

Kalite sistem sertifikası aşağıdaki kapsam için geçerlidir:

**YANGIN ÖNLEYİCİ KORUMA MALZEMESİ STICKER VE CORD, ÜRETİMİ VE SATIŞI**

Sertifika Numarası: I SACM6529Q

Sertifika Tescil Tarihi: 01 Ocak 2019  
Sertifika Tarihi: 07 Ocak 2019  
Sertifika Bitiş Tarihi (sertifika, pemyok ve devamlarına dayanık ve tamamlanması kaydıyla geçerlidir): 31 Aralık 2021

Yetkili İmza

This certificate is the property of ACM Limited and shall be returned immediately on request.  
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+44 (0) 845 504 6262 info@acmltd.com

**TSEK** **TÜRK STANDARLARI ENSTİTÜSÜ**  
KRITERE UYGUNLUK BELGESİ  
**TURKISH STANDARDS INSTITUTION**  
CERTIFICATE OF CONFORMANCE TO CRITERIA

Markanın Tanımı	Description of the Mark
<b>TSEK</b> 1000 10 1-0101X	
<b>BELGE NUMARASI</b> REFERENCE NUMBER OF LICENSE	0230060-TSEK-02/1
<b>BELGENİN İLK YERİŞİS TARİHİ</b> DATE OF FIRST ISSUE OF LICENSE	23.05.2018
<b>BELGENİN SON GEÇERLİLİK TARİHİ</b> LICENSE VALID UNTIL	23.05.2019
<b>BELGE SAHİBİ KURULUŞUN ADI</b> NAME OF THE LICENSE HOLDER	FPN YANGIN KORUMA SİSTEMLERİ VE ÜRETİM ANONİM ŞİRKETİ
<b>BELGE SAHİBİ KURULUŞUN ADRESİ</b> ADDRESS OF THE LICENSE HOLDER	İÇERENKÖY MAH. ÇAYIR CAD. AY PLAZA NO:2/2 ATAŞEHİR / İSTANBUL
<b>ÜRETİM YERİ ADI</b> NAME OF THE MANUFACTURING PLACE	FPN YANGIN KORUMA SİSTEMLERİ VE ÜRETİM A.Ş.
<b>ÜRETİM YERİ ADRESİ</b> ADDRESS OF THE MANUFACTURING PLACE	DEMİRCİLER OSB NO: 17/1 BOLU
<b>TESCİLLİ TİCARİ MARKASI</b> REGISTERED TRADE MARK	FIPRON
<b>İLGİLİ BELGELENDİRME KRİTERİ</b> RELATED TURKISH STANDARD	TSE K 526 / Plaka Tipi Yangın Söndürücü / 28.08.2016
<b>BELGE KAPSAMI</b> SCOPE OF LICENSE	
<b>PLAZA TİPİ YANGIN SÖNDÜRÜCÜ</b> TIP 15 150 HACİM İÇİN TIP 30 300 HACİM İÇİN TIP 45 450 HACİM İÇİN TIP 60 600 HACİM İÇİN TIP P 1.200 HACİM İÇİN	

23.05.2018

Belgeleme Merkez Başkanı Adına  
ÖZGÜR ÖZDOĞRU  
KİMYA SEKTÖRÜ MÜDÜRÜ

**TSEK** **TÜRK STANDARLARI ENSTİTÜSÜ**  
KRITERE UYGUNLUK BELGESİ  
**TURKISH STANDARDS INSTITUTION**  
CERTIFICATE OF CONFORMANCE TO CRITERIA

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<b>TSEK</b> 1000 10 1-0101X	
<b>BELGE NUMARASI</b> REFERENCE NUMBER OF LICENSE	0230060-TSEK-01/1
<b>BELGENİN İLK YERİŞİS TARİHİ</b> DATE OF FIRST ISSUE OF LICENSE	23.05.2018
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<b>BELGE SAHİBİ KURULUŞUN ADI</b> NAME OF THE LICENSE HOLDER	FPN YANGIN KORUMA SİSTEMLERİ VE ÜRETİM ANONİM ŞİRKETİ
<b>BELGE SAHİBİ KURULUŞUN ADRESİ</b> ADDRESS OF THE LICENSE HOLDER	İÇERENKÖY MAH. ÇAYIR CAD. AY PLAZA NO:2/2 ATAŞEHİR / İSTANBUL
<b>ÜRETİM YERİ ADI</b> NAME OF THE MANUFACTURING PLACE	FPN YANGIN KORUMA SİSTEMLERİ VE ÜRETİM A.Ş.
<b>ÜRETİM YERİ ADRESİ</b> ADDRESS OF THE MANUFACTURING PLACE	DEMİRCİLER OSB NO: 17/1 BOLU
<b>TESCİLLİ TİCARİ MARKASI</b> REGISTERED TRADE MARK	FIPRON
<b>İLGİLİ BELGELENDİRME KRİTERİ</b> RELATED TURKISH STANDARD	TSE K 527 / Kapsak Tipi Yangın Söndürücü / 24.10.2016
<b>BELGE KAPSAMI</b> SCOPE OF LICENSE	KORON TİPİ YANGIN SÖNDÜRÜCÜ

23.05.2018

Belgeleme Merkez Başkanı Adına  
ÖZGÜR ÖZDOĞRU  
KİMYA SEKTÖRÜ MÜDÜRÜ



# FIPRON

PRODUCED IN GEREDE- BOLU  
TURKEY





# FIPRON

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