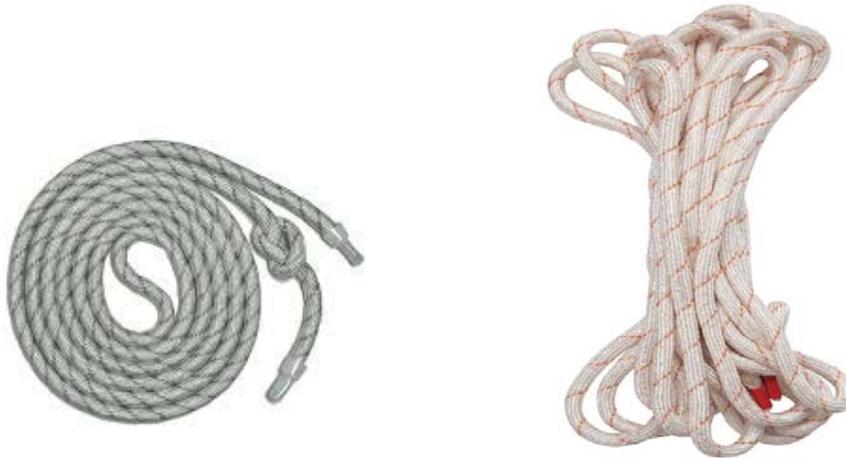


AEROCORD Cord is a string type stand-alone fire extinguishing device containing microcapsules equipped with fire extinguishing agent activated at a certain temperature. It's an innovative and new solution specifically designed to extinguish fire in IP20 and higher-level panels and electrical installations. AEROCORD cord works as an intelligent and autonomous fire extinguishing device that activates at 120 C temperature by releasing a extinguishing agent from the capsules, resulting in the extinguishing of the fire. The warranty period after installation is 10 years.

Overview of products

1. **AEROCORD CORD** is a local fire extinguishing element in the form of a cord. It is a new generation of fire extinguishing products made of composite materials that contain microcapsules. Because of fire and at a temperature of 170 °C in the place, where the cord is installed, the heated substance will be initiated with a subsequent chemical reaction along the entire length cords. This reaction results in the bursting of the microcapsules and the release of environmentally friendly fire extinguishers. AEROCORD CORD is designed for extinguishing fires in junction boxes, substations, servers and other electrical equipment. AEROCORD CORD extinguishes the fire in the initial stages of the fire, thereby preventing its spread beyond the boundaries of the protected space and prevents re-ignition in the given space for up to 30 minutes (depending on the tightness of the space). Thanks to the flexibility of the cord (AEROCORD CORD), it is easy to install, requires no power source and remains in standby mode for 10 years.
2. **Scope of use All AEROCORD** products have an unlimited range of use. It is possible to apply them in any place where electrical connections and distributions are located. Thanks to the miniature size and variability of AEROCORD CORD lengths, these products can be installed in different spaces. AEROCORD products can be installed in mains sockets, connectors, electrical panels, control panels, server rooms, computer stations, televisions, refrigerators and many other appliances. AEROCORD CORD can be easily installed in small, medium and large electrical cabinets where there is no other alternative for firefighting. Installation is very easy, does not require any modification of the existing

ones electrical devices and thus becomes an innovative and effective means in addition to classic means and systems intended for extinguishing fires. Commercial use is completely unrestricted. Above all, public spaces such as schools, hospitals, shopping centres and large residential and office buildings can be secured in their entirety thanks to AEROCORD technology. AEROCORD products can be used both in fire prevention and fire extinguishing. AEROCORD is not a competitor to existing fire extinguishing systems, but has an additional security function for fire solutions risks directly at the potential source of fire. They are completely electrically independent, which is the opposite of traditional fire extinguishing systems. They can be used in the automotive industry, in the oil industry, on pumps stations, in public transport, in electrical substations. The products can be used in the mentioned areas AEROCORD and can thus potentially reduce all risks and prevent insurance events.



Technical data about the AEROCORD CORD product:

The product for independent fire extinguishing "AEROCORD CORD" thermally activates its extinguishing properties. It is a new one product intended especially for independent fire extinguishing without human assistance. AEROCORD CORD can be installed together with high-voltage electric cable in closed cable ducts without any modifications to the existing equipment. Product trade name: "AEROCORD CORD" independent fire extinguishing product with thermally activated fire extinguishers properties. The recommended maximum length of one type is 4 meters. AEROCORD CORD works as an intelligent fire suppression system. The effect of temperature on

its active components causes the release of all extinguishing components inside the cord. The main distinguishing features of the AEROCORD CORD product:

- Flexibility and variability allow installation in different spaces.
- Low weight ensures easy transportation of the product.
- The product can be used in a wide range of temperatures. The AEROCORD CORD product can be used to protect electrical equipment (electrical cabinets) with forced ventilation. Depending on the number and size of the holes in the structure, it is necessary to use longer cord lengths - AEROCORD CORD. Microcapsules contain gaseous extinguishing agent (FK-512) – these gases do not damage the ozone layer.

3. Technical characteristics of AEROCORD CORD

| Name | AEROCORD CORD |
|---|-------------------|
| Space protection (volume) | Up to 1200 litres |
| Activation temperature | 120 °C |
| Fire class | A, B, E |
| Degree of coverage of the product | IP20 |
| Optimum operating temperature | -50 °C to +80 °C |
| 1 meter of MS product (cords) / protected area (volume) | 1 m / 50 litres |

4. General principles for operation and installation

- a. AEROCORD products can be installed in electrical sockets, connectors, electrical cabinets, control cabinets, large safes and safes. The AEROCORD CORD product can be installed together with a high voltage electrical cable into closed cable ducts in indoor and outdoor locations with operating temperatures from -50 °C to +80 °C.
- b. During the installation of products in electrical sockets, connectors, electrical cabinets, control cabinets and other electrical equipment, it is necessary to comply with the regulations for the installation and operation of electrical equipment and to observe the safety instructions regarding working with electrical equipment.

- c. During installation, the device must be disconnected from the power supply and measures must be taken to eliminating the possibility of electric shock. If it is not possible to disconnect the power supply to the equipment under voltage during the installation of the products, it is necessary to take measures to comply with electrical safety instructions (work with dielectric gloves, use of a dielectric pad and other applicable regulations regarding work with electrical equipment). If the products are used in multiple sector control cabinets, each section must be protected independently for the respective sector volume.
- d. Do not subject the product to impacts and do not work near the surface of the product open fire.
- e. Reuse of the disassembled product is prohibited.
- f. The product must be replaced if it is damaged on the outside, if there are visible signs of ignition or after the warranty period has expired.

5. Safety rules

WARNING!

During installation, it is necessary to disconnect the power supply and take measures to exclude the possibility of connecting the power.

In case of fire:

- Disconnect the power supply with the local or main switch.
- Proceed in accordance with the valid fire regulations in the given building.
- Do not attempt to open the protected object (space).
- Call the fire brigade. After extinguishing the fire, the area must be ventilated. The components of the product are not toxic in terms of the impact on human health and the environment, so the used products can be disposed of as normal municipal waste.

6. Manufacturer's warranty

- a. The manufacturer guarantees efficient operation when the products are installed in protected objects manufactured and serviced by qualified professionals certified in electrical work and holding a AEROCORD installation certificate.
- b. The warranty period for AEROCORD CORD and AEROCORD STICKER products is 10 years (120 months).

7. AEROCORD CORD installation instructions

Preparatory work

a. Prepare the necessary tools and materials: measuring tape, electrical tape, scissors, pliers, standard self-adhesive pads, cable clamps (compensating elements).

b. Determine the linear dimensions of the protected volume: measure (in centimetres) the length (d), width (w), height (in).

c. Determine the size of the protected volume (V) (in litres): $V = (l \times w \times h) / 1000$.

d. Calculate the required length (D) of the AEROCORD CORD product in meters depending on volume of the protected object, 1 meter of the product

e. Measure the required length (d) of the AEROCORD CORD product (in meters) based on the installed internal electrical equipment or circuit breakers located in the protected object to ensure that the AEROCORD CORD product covers all connections. The AEROCORD CORD product must be installed near all potential sources of fire in the protected object. This ensures the elimination of all potential risks of fire.

f. Select the optimal length (D) of the AEROCORD CORD product in meters according to the calculations above.

g. Cut the specified length (D) of the AEROCORD CORD product.

h. Wrap both ends of AEROCORD CORD with electrical tape to prevent fraying protective braiding.

8. Installation work

a. Disconnect the power source from the electrical equipment.

b. During installation, the voltage must be disconnected, and precautions must be taken to prevent it supply of electricity. If it is necessary to install the AEROCORD CORD product in live equipment, measures must be taken to comply with electrical safety regulations

according to the applicable national legislation (work in dielectric gloves, use a dielectric mat).

c. The surface of the AEROCORD CORD product must be located at the shortest possible distance from potential source of ignition.

If the required length is selected based on the calculated volume of the protected object and if a certain part of the AEROCORD CORD product remains, it is possible to leave the remaining part of the product anywhere inside protected device. But without splitting the CORD into multiple parts! Always keep it in one piece on one device.

d. Installing the product, we must ensure its location around the perimeter of the protected device from above and then it is necessary to carry out an even installation inside the protected object according to the calculated dimensions and its shape. The AEROCORD CORD product can be attached in any possible way, e.g. using standard self-adhesive (double-sided) tapes or plastic clips. When used of plastic clamps TIGHTEN THE CLAMPS WITH AEROCORD CORD SO THAT THERE IS ENOUGH SPACE BETWEEN THE CORD AND THE CLAMP (THIS THE CORD WAS NOT TOO NICE IN THE CLAMP).

e. It is forbidden to subject the AEROCORD CORD product to impacts and to carry out work with an open flame near the surface of the product. IT IS NOT PERMISSIBLE TO REMOVE THE OUTER SHELL FROM THE AEROCORD PRODUCT CORD.