

Article Overview

Sealing cloth or sealing strips for distribution boxes protect against moisture, dust, and environmental damage, ensuring the longevity and safety of electrical components.

Types of Sealing Materials

- o **EPDM Foam Strips** EPDM (ethylene propylene diene monomer) foam strips are widely used for distribution and control cabinets. They are flexible, durable, and provide excellent resistance to temperature variations, UV, and ozone. EPDM strips are installed along the edges of doors or panels to create a tight seal, preventing dust and water ingress. Proper surface cleaning and size matching are essential for optimal performance, and the strips should not be overstretched during installation to maintain elasticity and sealing efficiency .
- o **Polyurethane or Silicone Sealing Foams** Liquid-applied polyurethane or silicone foams can be used to create seamless gaskets around the contours of control cabinets and distribution boxes. These foams cure at room temperature to form a soft, continuous gasket that protects electronics from moisture, dust, and corrosion. They are suitable for powder-coated metal housings and comply with standards such as DIN EN 61439 (IEC 61439) for control cabinets .
- o **Watertight D-Box Seals** For plastic distribution or inspection chamber boxes, specialized injection-molded seals provide watertight protection. These seals accommodate various pipe sizes and configurations, ensuring a secure fit and preventing water ingress in outdoor or underground installations .

Installation Guidelines

- o **Surface Preparation:** Ensure the installation area is clean, dry, and free of oil, dust, or other contaminants.
- o **Size Matching:** Measure the distribution box accurately and select a sealing strip or foam that fits the dimensions.
- o **Avoid Overstretching:** Install the seal in its natural state to maintain elasticity and effectiveness.
- o **Temperature Considerations:** Install in appropriate temperature conditions to avoid compromising the material properties.
- o **Inspection:** Check for damage or deformation before installation and replace defective seals to ensure proper protection .

Benefits

- o **Moisture and Dust Protection:** Prevents corrosion and contamination of electrical components.
- o **Durability:** High resistance to temperature fluctuations, UV, and mechanical stress.
- o **Compliance:** Meets industry standards for control cabinets and distribution boxes.
- o **Reduced Downtime:** Protects electronics, minimizing the risk of malfunctions and costly production interruptions . Selecting the right sealing material depends on the type of distribution box, environmental conditions, and required protection level. EPDM strips are ideal for general-purpose indoor and outdoor



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cabinets, while polyurethane or silicone foams provide seamless, high-performance sealing for industrial control cabinets. For plastic D-boxes, watertight molded seals are the most effective solution .

Thread the cable through the gland nut, seating the cable jacket fully past the inner seal. Tighten the locknut to the

Explore our curated selection of waterproof distribution box models from the AT and HT series. Each enclosure delivers dependable

Seal an electrical enclosure by matching the IP/NEMA rating, using the right gasket, cable

To seal an outdoor electrical enclosure, use a weather-resistant gasket, IP-rated cable

Sealing products are specifically designed to ensure the integrity of electrical cables, panels, and boxes,

Outdoor distribution boxes spend years outdoors, and the most annoying thing is the ever-present, penetrating dust.

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Henkel's polyurethane or silicone sealing foams protect the electronics in control cabinets and electrical

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When installing, first clean the sealing area to ensure that there is no dust or impurities, then align the sealant strip

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Sealing of control cabinets and electrical distribution boxes made of plastic The groove contours of electronic distribution boxes and

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The distribution box features a double-sealed silicone waterproof design, with sealing silicone underneath the transparent lid to

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