

# High Temperature Resistance Solution for Integrated Wiring Boxes and Cabinets in Lebanon



## AI Overview

For high-temperature protection of wiring boxes and electrical cabinets, solutions include intumescent fire-protection pads, high-temperature insulation foams, and specialized heat-resistant enclosures.

**Fire-Protection Pads for Wiring Boxes** HENSOTHERM® 7 KS HWD Pads are intumescent, self-adhesive pads designed for electrical installation boxes. They expand when exposed to temperatures around 150°C, forming a compact carbon layer that prevents cable fires and insulates the wiring. These pads can restore the fire resistance of walls even when standard electrical boxes are used and have been tested up to EI 120 minutes in flexible and rigid walls, making them suitable for high-temperature and fire-prone environments.

**High-Temperature Insulation Materials** Intek® PFI-1120 is a lightweight, non-flammable foam insulation suitable for wiring boxes and cabinets. It provides thermal and acoustic insulation, remains stable under high humidity, and resists temperature cycling. It is formaldehyde-free and emits minimal smoke or toxic by-products in case of fire, making it ideal for industrial and commercial applications in hot climates.

Similarly, Promat high-temperature insulation offers flexible, rigid, or pourable materials that maintain thermal stability, reduce heat loss, and improve safety in compact spaces.

**Specialized High-Temperature Cabinets** For integrated electrical cabinets, KDST high-temperature-resistant solutions address the challenges of heat accumulation, component degradation, and humidity. These cabinets are designed to prevent overheating of semiconductors, PVC-insulated wires, and silver alloy contacts, which can fail at temperatures above 60°C. KDST solutions include therm...

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This article, combining KDST's technological R&D and practical cases, analyzes the core challenges of high-temperature environments for electrical control cabinets and details KDST's customized high

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The well-tempered electrical enclosure

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## Contact Us

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