

TECHNICAL DATA SHEET | Insulated Grey Mat (Class 0 to 4)



Insulated Grey Mat (Class 0 to 4)



/ STANDARDS

- Complies with IEC 61111 — Insulating mats for electrical work

/ USE

The Insulating Mat (available 1x1 meter sizes) is a high-quality, durable safety mat designed for electrical work, providing reliable insulation protection across multiple voltage classes for operator safety in high-voltage environments.

Custom length of up to 10m also available, upon request.

/ KEY ADVANTAGES

- High-voltage protection: Available across multiple voltage classes (1000 V to 36 kV)
- Durable and flexible: Long-lasting mat suitable for heavy-duty use
- Safe working area: Provides reliable insulation in substations, workshops, and field environments
- Standardized dimensions: Modular sizes (1 m × 1 m and 1.2 m × 1.2 m) for easy placement and coverage
- Compliance-tested: Meets IEC 61111 and international insulation safety requirements
- Versatile usage: Suitable for indoor and outdoor electrical operations

/ AREAS OF ACTIVITY

- Communication
- Defence
- Distribution
- Electric Vehicles (EV)
- Generation
- Lighting
- Maritime
- Mining
- Oil & Gas
- Rail
- Renewables
- Rescue & Emergency Services
- Transmission

/ TECHNICAL SPECIFICATIONS

- **Brand:** PENTA ESP
- **Material:** High-quality insulating rubber or equivalent
- **Usage:** Indoor and outdoor electrical safety applications

/ VARIATIONS

Part Number	Class	Voltage Rating	Thickness	Dimension
PA22990	Class 0	1000 V	2.0 mm	1m x 1m

PA22992	Class 1	7.5 kV	2.1 mm	1m x 1m
PA22414	Class 2	17 kV	2.6 mm	1m x 1m
PA22997	Class 3	26.5 kV	3.2 mm	1m x 1m
PA23002	Class 4	36 kV	5.2 mm	1m x 1m
PA22999	Class 4	36 kV	5.2 mm	1.2m x 1.2m

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