

Technical Data Sheet

VoltaSchutz Mat C51

Electrical insulating mat for protection against high voltage electrical shocks

DESCRIPTIONS:

VoltaSchutzMat C51 is an electrical insulating mat based on (NR/SBR) Rubber used for floor covering in front of switchboards or high voltage equipment to protect work force against deadly electrical shocks.

The essential properties of VoltaSchutzMat C51 are its strong properties of Insulation and therefore protection against high voltage electrical shocks up to 26.5 kV according to the IEC 61111 International Standard with 5 mm thickness.

APPLICATIONS:

VoltaSchutzMat C51 is used for floor covering in high voltage areas, fuse boxes, control panels, power stations, high voltage panels, sub-stations, power transformer rooms, LT & HT labs, sub-bars and ship decks.

GENERAL PROPERTIES:

Properties	Unit	Value	Standard
Hardness Shore:	A	55 ± 3	ASTM D 2240
Tensile Strength:	N / mm ²	16	ASTM D 412
Elongation at Break:	%	450 ≤	ASTM D 41233
Density:	g / cm ³	1.2	ISO 4649
Abrasion Strength:	mm ³	120	ISO 4649
Average Breakage Voltage:	kV	57	IEC 60243:1
Available Colors:	-	Green	IEC 61111
Change Tensile Strength	%	5.09	ASTM D412-573 70 C° - 48hr
Change Elongation at Break	%	3.02	ASTM D412-573 70 C° - 48hr
Available Finishes	-	Fine Ribbed	-

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ADVANTAGES:

- ⚡ High dielectric strength up to 26.5 kV
- ⚡ Applicable for both AC & DC electrical insulation
- ⚡ Fire retardant, self-extinguishing properties
- ⚡ Applicable for all fields of generation, transferring, distribution and consumption of electricity
- ⚡ Water and moisture resistance
- ⚡ Appropriate anti-skid properties
- ⚡ Excellent resistant against tearing and scratching
- ⚡ Exhibit good elongation & tensile strength properties
- ⚡ Manufactured without any metallic derivatives or carbon additives

SEGMENTATIONS:

Product Code	Specification	Working Voltage	Marking Colorcode	Thickness
VoltaSchutzMat C51	IEC 61111: Class 3	26500 A.C V(r.ms) 39750 D.C V	Green	5.0 mm

INSTALLATION:

VoltaSchutzMat C51 can be installed on the floor with or without glue depending on the working conditions.

PACKING AND STORAGE:

VoltaSchutzMat C51 is supplied in 1 m width rolls; the length varies as per requirements. The rolls are packed in non-stackable pallets and should be stored vertically.

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VoltaSchutz Mat C51; Revision No: 1.00 / Last Revision Date: 26.07.2023

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