

sofamel



Product Technical Specifications

Mod. SGM

Composite insulated gloves

Functionality

Composite insulated gloves provide electrical, mechanical, and arc-flash protection, and as such do not need to be combined with any other kind of glove with mechanical protection.

Product Features

The range of Composite gloves is made with a unique formulation rubber that provides extreme flexibility. It combines mechanical resistance and comfort, together with a high level of electrical protection.

Protection against electric arc: the material of the glove offers excellent characteristics in case of electric arc short circuit.

Mechanical and Thermal Features

Average tensile strength: ≥ 16 MPa

Average elongation at break: $\geq 600\%$

Tension set: $\leq 15\%$

Complementary test and performance levels to be achieved are as follows:

Resistance to cutting: > 20 mm i 5N,

According to ISO13997

Resistance to abrasion: $\geq 0,05$ mg/t

Tearing resistance to: > 25 N

(Equivalent to level 2 according to EN 388)

Puncture resistance: > 60 N

(Equivalent to level 2 according to EN 388)

Resistance to very low temperatures:

Conditioning of the gloves for **24 hours at -40 °C. ± 3 °C.**

Flame spread test: **Application of a flame for 10 seconds to the fingertip.**



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Dielectric composite gloves

Specifications / Technical Data

Ref.	Class	Thickness (mm)	Working Voltage (V) max.	Proof Test Voltage (V) max.	ATPV (cal/cm ²) ASTM F2675
SGM-25 T9 SGM-25 T10	00	< 1.8	500 V AC	2.500 V AC	26,3 cal/cm ²
SGM-50 T9 SGM-50 T10	0	< 2.3	1.000 V AC	5.000 V AC	71,6 cal/cm ²
SGM-10 T9 SGM-10 T10	1	< 3.4	7.500 V AC	10.000 V AC	42,2 cal/cm ²
SGM-20 T9 SGM-20 T10	2	< 3.9	17.000 V AC	20.000 V AC	74,5 cal/cm ²
SGM-30 T9 SGM-30 T10	3	< 4.2	26.000 V AC	30.000 V AC	73.2 cal/cm ²
SGM-40 T10 SGM-40 T11	4	< 4.8	36.000 V AC	40.000 V AC	87.7 cal/cm ²

Ref.	Size	Length (mm)	Color	Categories
SGM-25 T9 SGM-25 T10	9 10	360	External: red Internal: beige	RC
SGM-50 T9 SGM-50 T10	9 10			
SGM-10 T9 SGM-10 T10	9 10			
SGM-20 T9 SGM-20 T10	9 10			
SGM-30 T9 SGM-30 T10	9 10	410		
SGM-40 T10 SGM-40 T11	10 11			

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Versión: R2-7.2 COM01 Las especificaciones están sujetas a cambios sin previo aviso.

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Certified

According to the Standards:

IEC 60903:2014: Live working - Electrical insulating gloves

IEC 61482-1-2: Live working - Protective clothing against the thermal hazards of an electric arc - Part 1-2: Test methods - Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test).

ASTM F2675: Standard Test Method for Determining Arc Ratings of Hand Protective Products Developed and Used for Electrical Arc Flash Protection.

PPE Category III (UE 2016/425): Imminent application of the new Regulation (EU) 2016/425 on Personal Protective Equipment (PPE).

CE Marked

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