

sofamel



Product Technical Specifications

Mod. SGM

Dielectric composite 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: **≥600%**

Tension set: **≤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: **≥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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Specifications / Technical Data

| Code | Ref. | Class | Thickness (mm) max. | Working Voltage (V) max. | Proof test Voltage (V) max. | Size | Length (mm) | Category |
|--------|------------|-------|---------------------|--------------------------|-----------------------------|------|-------------|----------|
| 531110 | SGM-25 T9 | 00 | < 2.4 | 500 V AC | 2.500 V AC | 7* | 360 | RC |
| 531120 | SGM-25 T10 | | | | | | | |
| 531150 | SGM-50 T9 | 0 | < 2.9 | 1.000 V AC | 5.000 V AC | 8* | 360 | |
| 531160 | SGM-50 T10 | | | | | | | |
| 531190 | SGM-10 T9 | 1 | < 3.4 | 7.500 V AC | 10.000 V AC | 9 | 410 | |
| 531200 | SGM-10 T10 | | | | | | | |
| 531230 | SGM-20 T9 | 2 | < 3.9 | 17.000 V AC | 20.000 V AC | 10 | 410 | |
| 531240 | SGM-20 T10 | | | | | | | |
| 531270 | SGM-30 T9 | 3 | < 4.2 | 26.500 V AC | 30.000 V AC | 11 | 410 | |
| 531280 | SGM-30 T10 | | | | | | | |
| 531310 | SGM-40 T10 | 4 | < 4.8 | 36.000 V AC | 40.000 V AC | 12* | 410 | |
| 531320 | SGM-40 T11 | | | | | | | |

Meaning of letters in 'Categories': A: Acid / Z: Ozone / H: Oil / C: Very low temperature / R: A+Z+H resistance.

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).

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

CE Marked

EN 60903:2003: Live working - Gloves of insulating material (In process)