SOFAMEL

PRODUCT SHEET

Gloves / Dielectric gloves

30201 SG



The natural latex base provides excellent dielectric properties. The greater the glove thickness, the higher its electrical resistance.
The ergonomic design enhances comfort, offering superior softness and flexibility, and makes both donning and removal easier.
Insulating gloves are considered one of the most important items of personal protective equipment for electrical work. They form the first line of defence against contact with live components or energised conductors.

CE IEC 60903 | EN 60903



The natural latex glove is available in beige.

Code	Ref.	Class	Thickness (mm) max.	Thickness (mm) medium	Size	Length (mm)	Categories	Working voltage (V) max.	Proof test voltage (V) max.	Withstand voltage (V) max.
530110	**SG-25 T9**	00	< 1.1	0.6		360	AZC	500 V AC	2.500 V AC	5.000 V AC
530120	**SG-25 T10**									
530150	**SG-50 T9**	0	< 1.6	1.0	7*	280 - 360	AZC	1.000 V AC	5.000 V AC	10.000 V AC
530160	**SG-50 T10**				8*	410 - 460				
530190	**SG-10 T9**	1	< 2.1	1.6	9		RC	7.500 V AC	10.000 V AC	20.000 V AC
530200	**SG-10 T10**									
530230	**SG-20 T9**	2	< 2.9	2.3	10	360	RC	17.000 V AC	20.000 V AC	30.000 V AC
530240	**SG-20 T10**									
530270	**SG-30 T9**	3	< 3.5	2.9	11		RC	26.500 V AC	30.000 V AC	40.000 V AC
530280	**SG-30 T10**									
530290	**SG-30 T11**				12*					
530320	**SG-40 T10**	4	< 4.2	3.8		410	RC	36.000 V AC	40.000 V AC	50.000 V AC
530330	**SG-40 T11**									

Meaning of letters in 'Categories': A: Acid / Z: Ozone / H: Oil / C: Very low temperature / R: A+Z+H resistance.
* For sizes 7, 8 and 12 consult.

USE: Recommended for work in electricity generation, transmission, transformation, and distribution, as well as in the railway, telecommunications, construction, industrial maintenance, photovoltaic panel, and hybrid vehicle battery sectors, among others.

RECOMMENDATIONS: Depending on the task, it is advisable to use the insulating latex gloves together with appropriate leather over-gloves to provide additional mechanical protection against abrasion, cutting, tearing, and punctures.

MECHANICAL AND THERMAL REQUIREMENTS

- Average tensile strength: ≥16 MPa
- Average elongation at break: ≥600%
- Puncture resistance: ≥18 N/mm
- Tension set: ≤15%
- Resistance to very low temperatures:
  gloves conditioned for 24 hours at -40 °C ± 3 °C
- Flame-retardant test:
  application of a flame for 10 seconds at the fingertip.

Available in sizes:

7 8 9 10 11 12



Recommended size	**9**	**10**	**11**
Circumference in cm	**21**	**24**	**26**

Measured with the hand closed.



MANUFACTURING AND RETESTING OF INSULATING GLOVES

At Sofamel, we operate a fully dedicated production line for the manufacture of latex insulating gloves. Our processes are certified to the ISO 9001:2015 quality standard and comply with the requirements of EN 60903:2003 and IEC 60903:2014.

We also have a specially designed glove retesting booth for carrying out electrical tests, enabling us to provide all our customers with the best after-sales service for dielectric gloves.









YOUR SAFETY IS VITAL

THEREFORE, REGULAR INSPECTIONS OF INSULATING GLOVES ARE ESSENTIAL

RECOMMENDATIONS FOR THE MAINTENANCE AND VERIFICATION OF INSULATING GLOVES
Insulating gloves for live working are personal protective equipment (PPE) that prevent electrical hazards and are classified as Category III (fatal risk) under EU Directive 2016/425. The reference standards (EN 60903 and IEC 60903) define the recommendations for their use and inspection.

CLASS 0 and 00 GLOVES	Air leakage test and visual inspection	**RECOMMENDED BEFORE EACH USE**
	Dielectric properties test	**UPON CUSTOMER REQUEST**
CLASS 1 and 4 GLOVES	Air leakage test and visual inspection	**RECOMMENDED BEFORE EACH USE**
	Dielectric properties test	**MANDATORY** • Every 6 months from the start of service. • Maximum of 12 months from the date of manufacture if not used.

THE DEFINITION OF A GLOVE'S LIFESPAN IN NO WAY EXEMPTS THE RECOMMENDATIONS FOR PERIODIC INSPECTIONS.

Storage conditions
According to EN 60903 and IEC 60903 standards for Class C, gloves can be used at ambient temperatures between -40 °C and +55 °C. They are delivered in a UV-resistant plastic bag suitable for transport and storage. Store the gloves in a dry, dark place at temperatures between 10 °C and 21 °C. Do not compress, fold, or store them near sources of heat, light, or ozone.