

TECHNICAL LEAFLET INSULATING GLOVES FOR ELECTRICAL WORKS



Summary table :

Class	Categories	Thickness in mm ⁽¹⁾	Proof test voltage ⁽²⁾	Maxi. Use voltage ⁽²⁾	Length available	References
00	AZC	0.5	2 500	500	28 cm / 36 cm	GLE28 00 / GLE36 00
0	AZC	1.0	5 000	1 000	36 cm / 41 cm	GLE36 0 / GLE41 0
1	AZC	1.5	10 000	7 500	36 cm / 41 cm	GLE36 1 / GLE41 1
2	RC	2.3	20 000	17 000	36 cm / 41 cm	GLE36 2 / GLE41 2
3	RC	2.9	30 000	26 500	36 cm / 41 cm	GLE36 3 / GLE41 3
4	RC	3.6	40 000	36 000	41 cm	GLE41 4

(1) Categories allow an over thickness of 0.6 mm

(2) Electrical tests are done in alternating current

SIZES AVAILABLE :
8 – 9 – 10 – 11

MECHANICAL REQUIREMENTS :

- Tensile strength > 16 Mpa
- Puncture resistance > 18 N/mm
- Elongation at break > 600 %
- Tension set < 15%

AGEING REQUIREMENTS :

Conditioning of the gloves in an air oven at 70 ± 2 °C during 168 hours :

- the tensile strength and the elongation at break must be at least equal to 80% of non-conditioning gloves. The tension set must not exceed 15%.
- Gloves must pass the proof test voltage and the withstand test voltage.

THERMAL TESTS :

• RESISTANCE TO LOW TEMPERATURE :

Conditioning of gloves for 1 hour at -25 ± 3°C. Tests are satisfactory if no tearing, breaking or cracking after folding is visible on the cuff and if the gloves pass the proof test voltage and the withstand test voltage.

• FLAME RETARDANCY TEST :

Application of a flame at a finger tips for 10 seconds. Test is satisfactory if, after 55 seconds, the flame has not reached the marker located 55 mm away at the other end.

SPECIAL PROPERTIES

• CATEGORY H (oil resistance)

Conditioning of gloves by immersion for 24 hr in oil (liquid 102) at 70 ± 2 °C:

- ↳ Proof and withstand test voltage
- ↳ Mechanical resistance : > 50% of non conditioning gloves

• CATEGORY A (resistance to acid)

Conditioning of gloves by immersion for 8 hr in sulphuric acid solution (32° Be) heated at 23 ± 2 °C:

- ↳ Proof and withstand test voltage
- ↳ Mechanical resistance : > 75% of non conditioning gloves

• CATEGORY Z (resistance to ozone)

Conditioning of gloves for 3 hr in a chamber at 40 ± 2 °C and in a 1 ± 0.01 mg/m³ ozone concentration

- ↳ Visual control
- ↳ Proof and withstand test voltage

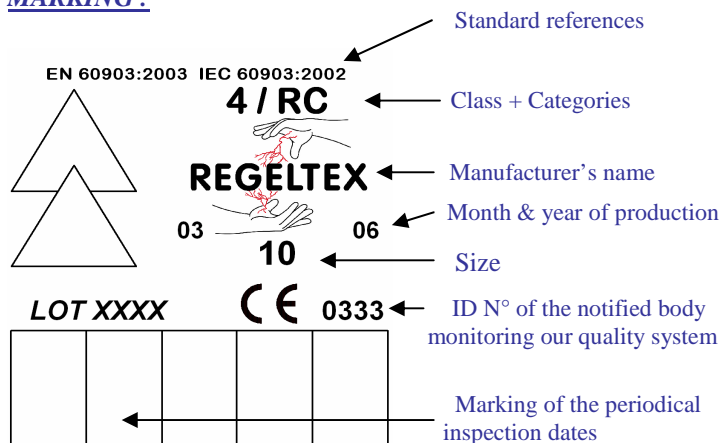
• CATEGORY C : (resistance to very low temperatures)

Conditioning of gloves for 24 hr at -40 ± 3 °C. and then shall be folded at the wrist in order to be placed between two polyethylene plate and being subjected to a force of 100 N for 30 seconds :

- ↳ Visual control
- ↳ Proof and withstand test voltage

• CATEGORY R = A + Z + H

MARKING :



PERIODICAL RETESTING :

No gloves of classes 1, 2, 3 and 4, not even those held in storage, should be use unless they have been tested within a maximum period of 6 months [...]. The test consist of a visual inspection followed by a routine test.

From the annex E (informative) of the EN-60903 standard

PACKING :

Each pair of gloves is packaged in an opaque sachet with a direction of use inside.

On the packaging, the following information is given : class, size, categories, type of cuff, length of gloves, test date, manufacture and validation batch numbers.

The sachet and instruction for use are certified as part of the PPE and must be kept with the gloves.