

## TECHNICAL LEAFLET INSULATING GLOVES FOR ELECTRICAL WORKS



### SUMMARY TABLE :

Class	Category	Thickness en mm (1)	Proof test voltage (2)	Maxi. use voltage (2)	Length available	Reference
00	AZC	0.5	2 500	500	27 cm / 36 cm	GLE27 00 / GLE36 00
0	AZC	1.0	5 000	1 000	36 cm / 41 cm	GLE36 0 / GLE41 1
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 :

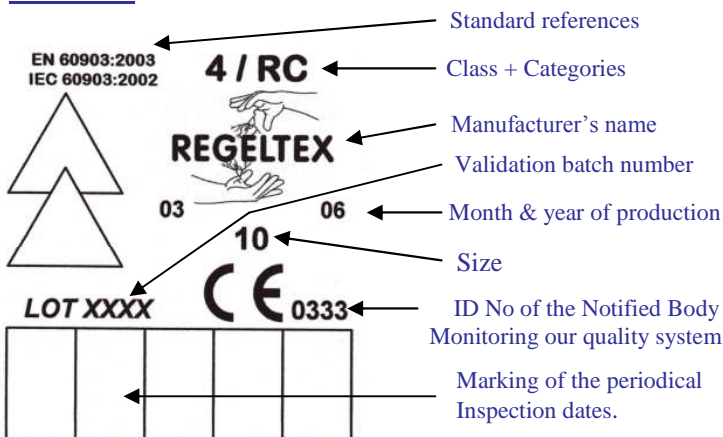
Conditioning of the gloves in an air oven at  $70 \pm 2$  °C during 168 hours :

- 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  $-25 \pm 3$ °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.

### MARKING



### SPECIAL PROPERTIES

- **CATEGORY H (oil resistance)**  
Conditioning of gloves by immersion for 24 hr in oil (liquid 102) at  $70 \pm 2$  °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  $23 \pm 2$  °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  $40 \pm 2$  °C and in a  $1 \pm 0.01$  mg/m<sup>3</sup> ozone concentration  
↳ Proof and withstand test voltage  
↳ Visual control
- **CATEGORY C : (resistance to very low temperatures)**  
Conditioning of gloves for 24 hr at  $-40 \pm 3$  °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 :  
↳ Proof and withstand test voltage  
↳ Visual control
- **CATEGORY R = A + Z + H**

### 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 is homologated as part of the PPE and must kept with the gloves.