

**INSULATION TEST CERTIFICATE**

Nr.:

108543

Date:

17/08/2026

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**1. GENERAL TEST DATA**

|                                 |                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Requester:</b>               | Tramontina Garibaldi S.A. Ind. Met.                                                                                                                                                                                                                                                                                      |
| <b>Test date:</b>               | 17/08/2026                                                                                                                                                                                                                                                                                                               |
| <b>Place:</b>                   | Tramontina Garibaldi S.A. Test Laboratory, located at Tramontina Street, 600 – Garibaldi – RS                                                                                                                                                                                                                            |
| <b>Environmental Condition:</b> | Temperature from 18 °C to 28 °C and 45% to 75% relative humidity                                                                                                                                                                                                                                                         |
| <b>Test method:</b>             | Before the test, the sample is conditioned as described in IEC 60900:2018, sections 5.5.2.2 or 5.5.2.3. After the conditioning period, the sample is submitted to voltage of 10 kV r.m.s (60 Hz) for 3 minutes, in accordance with item 5.5.3 – Dielectric Test of Insulated Hand Tools, of the aforementioned standard. |

**2. TESTED ITEM IDENTIFICATION**

|                                    |                                                                                                |
|------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Manufacturer:</b>               | Tramontina Garibaldi S.A. Ind. Met.                                                            |
| <b>Description of tested item:</b> | 17 mm IEC 60900 Open End Wrench                                                                |
| <b>Reference:</b>                  | 44320/017                                                                                      |
| <b>Manufacturing order number:</b> | 1213764                                                                                        |
| <b>Sample:</b>                     | The tested samples come from the industrial process of the aforementioned manufacturing order. |

**3. STANDARD IDENTIFICATION**

|                               |                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipment:</b>             | High Voltage Source                                                                                                                |
| <b>Identification Number:</b> | 100/013                                                                                                                            |
| <b>Traceability:</b>          | Calibrated by LABELO Laboratory, recognized by Cgcre/Inmetro CAL 0024, Calibration Certificate No. E0012/2026, according to PL015. |

**4. TEST RESULT IN ACCORDANCE TO IEC 60900:2018 STANDARD**

| Batch representative sample | RESULT   |
|-----------------------------|----------|
| 44320/017                   | Approved |

**NOTES:**

- a) This tool underwent insulation testing, and even after long storage periods, it is suitable for use.  
After the first application, annual recertification is necessary.
- b) The results shown herein are related exclusively to the tested tool, within the specified conditions.  
They cannot be extended to any lot, even for similar products.
- c) This document may only be reproduced in full. Partial reproduction requires written approval from the laboratory.



Eng. José Carlos Rizzolli  
Authorized Signer