



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

*Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:*

***Ferycon Labs, S.A. de C.V. (Instrulab)***

***Carrera 82 #42, Sur 49***

***San Antonio de Prado, Medellín, Colombia. C.P. 52000***

*(Hereinafter called the Organization) and hereby declares that Organization is accredited  
in accordance with the recognized International Standard:*

**ISO/IEC 17025:2017**

This accreditation demonstrates technical competence for a defined scope and the  
operation of a laboratory quality management system  
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

***Mechanical, Thermodynamic, Electrical and Mass, Force and Weighting  
Devices Calibration  
(As detailed in the supplement)***

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen  
President

*Initial Accreditation Date:*

February 07, 2025

*Issue Date:*

February 07, 2025

*Expiration Date:*

February 07, 2027

*Accreditation No.:*

78970

*Certificate No.:*

L25-111 -2

Perry Johnson Laboratory  
Accreditation, Inc. (PJLA)  
755 W. Big Beaver, Suite 1325  
Troy, Michigan 48084

*The validity of this certificate is maintained through ongoing assessments based on a  
continuous accreditation cycle. The validity of this certificate should be  
confirmed through the PJLA website: [www.pjllabs.com](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

## Ferycon Labs, S.A. de C.V. (Instrulab)

Carrera 82 #42, Sur 49

San Antonio de Prado, Medellín, Colombia. C.P. 52000

Contact Name: Fernando Briseño Phone: 442-403-5892

*Accreditation is granted to the facility to perform the following calibrations:*

### Mechanical

| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ ) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED |
|----------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| Vacuum Meters <sup>FO</sup>            | -10 psi to 1 psi                            | 0.017 psi                                                                    | Digital Manometer                                  | Euramet_cg-17<br>DKR-R 6-1                        |
| Pressure Gage <sup>FO</sup>            | 1.1 psi to 10 psi                           | 0.018 psi                                                                    |                                                    |                                                   |
|                                        | 10.1 psi to 50 psi                          | 0.027 psi                                                                    |                                                    |                                                   |
|                                        | 50.1 psi to 150 psi                         | 0.041 psi                                                                    |                                                    |                                                   |
|                                        | 150.1 psi to 300 psi                        | 0.14 psi                                                                     |                                                    |                                                   |
|                                        | 300.1 psi to 500 psi                        | 0.21 psi                                                                     |                                                    |                                                   |
|                                        | 500.1 psi to 1 300 psi                      | 0.23 psi                                                                     |                                                    |                                                   |
|                                        | 1 300.1 psi to 1 800 psi                    | 0.32 psi                                                                     |                                                    |                                                   |
|                                        | 1 800.1 psi to 2 500 psi                    | 0.84 psi                                                                     |                                                    |                                                   |
|                                        | 2 500.1 psi to 3 500 psi                    | 0.88 psi                                                                     |                                                    |                                                   |
|                                        | 3 500.1 psi to 5 000 psi                    | 0.93 psi                                                                     |                                                    |                                                   |
|                                        | 5 000.1 psi to 10 000 psi                   | 1.7 psi                                                                      |                                                    |                                                   |
| Pressure Transmitter <sup>FO</sup>     | 1.1 psi to 10 psi                           | 0.018 psi                                                                    |                                                    |                                                   |
|                                        | 10.1 psi to 50 psi                          | 0.027 psi                                                                    |                                                    |                                                   |
|                                        | 50.1 psi to 150 psi                         | 0.041 psi                                                                    |                                                    |                                                   |
|                                        | 150.1 psi to 300 psi                        | 0.14 psi                                                                     |                                                    |                                                   |
|                                        | 300.1 psi to 500 psi                        | 0.21 psi                                                                     |                                                    |                                                   |
|                                        | 500.1 psi to 1 300 psi                      | 0.23 psi                                                                     |                                                    |                                                   |
|                                        | 1 300.1 psi to 1 800 psi                    | 0.32 psi                                                                     |                                                    |                                                   |
|                                        | 1 800.1 psi to 2 500 psi                    | 0.84 psi                                                                     |                                                    |                                                   |
|                                        | 2 500.1 psi to 3 500 psi                    | 0.88 psi                                                                     |                                                    |                                                   |
|                                        | 3 500.1 psi to 5 000 psi                    | 0.93 psi                                                                     |                                                    |                                                   |
|                                        | 5 000.1 psi to 10 000 psi                   | 1.7 psi                                                                      |                                                    |                                                   |
| Pressure Recorder <sup>FO</sup>        | 1.1 psi to 10 psi                           | 0.018 psi                                                                    |                                                    |                                                   |
|                                        | 10.1 psi to 50 psi                          | 0.027 psi                                                                    |                                                    |                                                   |
|                                        | 50.1 psi to 150 psi                         | 0.041 psi                                                                    |                                                    |                                                   |
|                                        | 150.1 psi to 300 psi                        | 0.14 psi                                                                     |                                                    |                                                   |
|                                        | 300.1 psi to 500 psi                        | 0.21 psi                                                                     |                                                    |                                                   |
|                                        | 500.1 psi to 1 300 psi                      | 0.23 psi                                                                     |                                                    |                                                   |
|                                        | 1 300.1 psi to 1 800 psi                    | 0.32 psi                                                                     |                                                    |                                                   |
|                                        | 1 800.1 psi to 2 500 psi                    | 0.84 psi                                                                     |                                                    |                                                   |
|                                        | 2 500.1 psi to 3 500 psi                    | 0.88 psi                                                                     |                                                    |                                                   |



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### Mechanical

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|----------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| Pressure Transducers <sup>FO</sup>     | 1.1 psi to 10 psi                           | 0.018 psi                                                                    | Digital Manometer                                  | Euramet_cg-17<br>DKD R-6<br>Internal Procedure    |
|                                        | 10.1 psi to 50 psi                          | 0.027 psi                                                                    |                                                    |                                                   |
|                                        | 50.1 psi to 150 psi                         | 0.041 psi                                                                    |                                                    |                                                   |
|                                        | 150.1 psi to 300 psi                        | 0.14 psi                                                                     |                                                    |                                                   |
|                                        | 300.1 psi to 500 psi                        | 0.21 psi                                                                     |                                                    |                                                   |
|                                        | 500.1 psi to 1 300 psi                      | 0.23 psi                                                                     |                                                    |                                                   |
|                                        | 1 300.1 psi to 1 800 psi                    | 0.32 psi                                                                     |                                                    |                                                   |
|                                        | 1 800.1 psi to 2 500 psi                    | 0.84 psi                                                                     |                                                    |                                                   |
|                                        | 2 500.1 psi to 3 500 psi                    | 0.88 psi                                                                     |                                                    |                                                   |
|                                        | 3 500.1 psi to 5 000 psi                    | 0.93 psi                                                                     |                                                    |                                                   |
|                                        | 5 000.1 psi to 10 000 psi                   | 1.7 psi                                                                      |                                                    |                                                   |

### Thermodynamic

| MEASURED INSTRUMENT, QUANTITY OR GAUGE                                                                   | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| Contact Thermometry (RTD, Thermocouple Reader sensor assembly and Bimetallic Thermometers) <sup>FO</sup> | -20 °C to 0 °C                              | 0.095 °C                                                               | Digital Thermometer and Dry Block                  | Nordtest Method NTVVS 103 Internal Procedure      |
|                                                                                                          | 0.1 °C to 25 °C                             | 0.11 °C                                                                |                                                    |                                                   |
|                                                                                                          | 25.1 °C to 50 °C                            | 0.13 °C                                                                |                                                    |                                                   |
|                                                                                                          | 50.1 °C to 100 °C                           | 0.14 °C                                                                | Reference Thermometer and Dry Block                |                                                   |
|                                                                                                          | 100.1 °C to 150 °C                          | 0.18 °C                                                                |                                                    |                                                   |
|                                                                                                          | 100.1 °C to 150 °C                          | 0.18 °C                                                                |                                                    |                                                   |
|                                                                                                          | 150.1 °C to 200 °C                          | 0.21 °C                                                                |                                                    |                                                   |
|                                                                                                          | 200.1 °C to 300 °C                          | 0.26 °C                                                                |                                                    |                                                   |
|                                                                                                          | 300.1 °C to 420 °C                          | 0.31 °C                                                                |                                                    |                                                   |
|                                                                                                          | 420.1 °C to 650 °C                          | 0.47 °C                                                                |                                                    |                                                   |
| Thermohygrometers Temperature Only <sup>O</sup>                                                          | 20 °C to 60 °C                              | 0.15 °C                                                                |                                                    |                                                   |
| Thermohygrometers Humidity Only <sup>O</sup>                                                             | 10 % RH to 90 % RH                          | 1.4 % RH                                                               |                                                    |                                                   |
| Oven <sup>O</sup>                                                                                        | 20 °C to 600 °C                             | 1.6 °C                                                                 | Datalogger Temperature and Thermocouples SAE       | AMS 2750 E Internal Procedure                     |
| Muffles and Furnance <sup>O</sup>                                                                        | 20 °C to 1 000 °C                           | 1.8 °C                                                                 |                                                    |                                                   |



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### Thermodynamic

| MEASURED INSTRUMENT, QUANTITY OR GAUGE    | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ ) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED    | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED |
|-------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------|
| Controlled Temperature Rooms <sup>O</sup> | 20 °C to 1 000 °C                           | 0.25 °C                                                                      | Datalogger Temperature and Thermocouples<br>DKD R-5-7 | Euramet_cg-20                                     |

### Mass, Force and Weighing Devices

| MEASURED INSTRUMENT, QUANTITY OR GAUGE | RANGE (AND SPECIFICATION WHERE APPROPRIATE) | CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY ( $\pm$ ) | CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED | CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED |
|----------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|
| Balances <sup>O</sup>                  | 0.001 g to 200 g<br>(Res.= 0.000 1 g)       | $(2.5 \times 10^{-4} + 2 \times 10^{-6} \text{Wt})$ mg                       | Weight Set F1                                      | Euramet_cg-18                                     |
|                                        | 0.001 g to 5 100 g<br>(Res.= 0.001 g)       | $(8.5 \times 10^{-4} + 2 \times 10^{-6} \text{Wt})$ mg                       |                                                    |                                                   |
| Scales <sup>FO</sup>                   | 5 kg to 400 kg<br>(Res.= 0.001 kg)          | $(1.4 \times 10^{-3} + 1.6 \times 10^{-6} \text{Wt})$                        |                                                    |                                                   |

### Electrical

| MEASURED<br>INSTRUMENT,<br>QUANTITY OR GAUGE                                                                                  | RANGE<br>(AND SPECIFICATION<br>WHERE APPROPRIATE) | CALIBRATION<br>AND MEASUREMENT<br>CAPABILITY EXPRESSED<br>AS AN UNCERTAINTY (±) | CALIBRATION<br>EQUIPMENT AND<br>REFERENCE<br>STANDARDS USED                                          | CALIBRATION<br>MEASUREMENT<br>METHOD OR<br>PROCEDURES USED |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Equipment to Measure<br>DC Voltage <sup>FO</sup>                                                                              | 1 mV to 100 mV                                    | 0.005 1 mV                                                                      | Fluke 754 and 744<br>Process Calibrators                                                             | EL-001 CEM<br>Internal Procedure                           |
|                                                                                                                               | 100.1 mV to 1 V                                   | 0.001 8 V                                                                       |                                                                                                      |                                                            |
|                                                                                                                               | 1.1 V to 15 V                                     | 0.002 8 V                                                                       |                                                                                                      |                                                            |
| Equipment to Measure<br>DC Current <sup>FO</sup>                                                                              | 0.1 mA to 22 mA                                   | 0.012 mA                                                                        | Fluke 754 and 744<br>Process Calibrators                                                             | Euramet_cg-11                                              |
| Equipment to Measure<br>Resistance <sup>FO</sup>                                                                              | 0.1 Ω to 10 Ω                                     | 0.01 % of reading + 10 mΩ                                                       |                                                                                                      |                                                            |
|                                                                                                                               | 10.1 Ω to 100 Ω                                   | 0.01 % of reading + 20 mΩ                                                       |                                                                                                      |                                                            |
|                                                                                                                               | 100.1 Ω to 1 kΩ                                   | 0.01 % of reading + 0.2 Ω                                                       |                                                                                                      |                                                            |
|                                                                                                                               | 1.1 kΩ to 10 kΩ                                   | 0.02 % of reading + 3Ω                                                          |                                                                                                      |                                                            |
| Equipment to Measure<br>Frequency                                                                                             | 0.1 Hz to 10.99 Hz                                | 0.1 Hz to 10.99 Hz                                                              |                                                                                                      |                                                            |
|                                                                                                                               | 10 Hz to 109.99 Hz                                | 11 Hz to 109.99 Hz                                                              |                                                                                                      |                                                            |
|                                                                                                                               | 110 Hz to 1 099.9 Hz                              | 110 Hz to 1 099.9 Hz                                                            |                                                                                                      |                                                            |
|                                                                                                                               | 1.1 kHz to 21.999 kHz                             | 1.1 kHz to 21.999 kHz                                                           |                                                                                                      |                                                            |
|                                                                                                                               | 22 kHz to 50 kHz                                  | 22 kHz to 50 kHz                                                                |                                                                                                      |                                                            |
| Temperature Calibration,<br>Simulation, Indication<br>and Control Equipment<br>used with Thermocouple<br>Type B <sup>FO</sup> | 600 °C to 799.9 °C                                | 1 °C                                                                            | Fluke 754 and<br>Fluke 744<br>Process Calibrators<br>Electrical Simulation of<br>Thermocouple Output |                                                            |
|                                                                                                                               | 800 °C to 999.9 °C                                | 0.8 °C                                                                          |                                                                                                      |                                                            |
|                                                                                                                               | 1 000 °C to 1 820 °C                              | 0.8 °C                                                                          |                                                                                                      |                                                            |



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### Electrical

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|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type C <sup>FO</sup> | 0 °C to 799.9 °C                            | 0.6 °C                                                                       | Fluke 754 and<br>Fluke 744<br>Process Calibrators<br>Electrical Simulation of<br>Thermocouple Output | Euramet_cg-11                                     |
|                                                                                                                   | 800 °C to 1 199.9 °C                        | 0.7 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 1 200 °C to 1 799 °C                        | 0.9 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 1 800 °C to 2 316 °C                        | 1.3 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type E <sup>FO</sup> | -250 °C to -199.9 °C                        | 0.6 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -200 °C to -99.9 °C                         | 0.3 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -100 °C to 599 °C                           | 0.3 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 600 °C to 1 000 °C                          | 0.2 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type J <sup>FO</sup> | -210 °C to -99.9 °C                         | 0.3 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -100 °C to 799.9 °C                         | 0.2 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 800 °C to 1 200 °C                          | 0.3 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type K <sup>FO</sup> | -200 °C to -99.9 °C                         | 0.4 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -100 °C to 399.9 °C                         | 0.3 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 400 °C to 1 200 °C                          | 0.3 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 1 200 °C to 1 372 °C                        | 0.3 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type L <sup>FO</sup> | -200 °C to -99.9 °C                         | 0.3 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -100 °C to 799.9 °C                         | 0.2 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 800 °C to 900 °C                            | 0.2 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type N <sup>FO</sup> | -200 °C to -99.9 °C                         | 0.6 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -100 °C to 899.9 °C                         | 0.5 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 900 °C to 1 300 °C                          | 0.3 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type R <sup>FO</sup> | -20 °C to 0 °C                              | 1.2 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 0.1 °C to 99.9 °C                           | 1.1 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 100 °C to 1 767 °C                          | 0.9 °C                                                                       |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type S <sup>FO</sup> | -20 °C to 0 °C                              | 1.2 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 0.1 °C to 199.9 °C                          | 1.1 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 200 °C to 1 399 °C                          | 0.9 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 1 400 °C to 1 767 °C                        | 1. °C                                                                        |                                                                                                      |                                                   |
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type T <sup>FO</sup> | -250 °C to -199.9 °C                        | 0.9 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | -200 °C to 0 °C                             | 0.4 °C                                                                       |                                                                                                      |                                                   |
|                                                                                                                   | 0.1 °C to 400 °C                            | 0.3 °C                                                                       |                                                                                                      |                                                   |



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|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Temperature Calibration, Simulation, Indication and Control Equipment used with Thermocouple Type U <sup>FO</sup> | -200 °C to 0 °C                             | 0.4 °C                                                                       | Fluke 754 and<br>Fluke 744<br>Process Calibrators<br>Electrical Simulation of<br>Thermocouple Output | Euramet_cg-11                                     |
|                                                                                                                   | 0.1 °C to 600 °C                            | 0.3 °C                                                                       |                                                                                                      |                                                   |

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor  $k$  (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location.
4. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations.
5. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
6. This location is linked to Ferycon Labs, S.A. de C.V. (Instrulab) Blvd. Peña Flor, No. 1102, Novatec Busines Park Nave B8, Ciudad del Sol, Querétaro, Querétaro, México. C.P. 76116 due to a share quality management system.