



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Ensayes y Representaciones, S.A de C.V***  
*Calzada Cuauhtémoc No. 1177 Sur, Col. Miguel Alemán*  
*Torreón, Coahuila, México C.P. 27230*

*(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):

### ***Chemical Testing***

***(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:

*Initial Accreditation Date:*

May 23, 2017

*Issue Date:*

June 14, 2019

*Expiration Date:*

July 31, 2021

*Accreditation No.:*

6474

*Certificate No.:*

L19-303

Tracy Szerszen  
President/Operations Manager

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

*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

## Ensayes y Representaciones, S.A de C.V

Calzada Cuauhtémoc No. 1177 Sur, Col. Miguel Alemán

Torreón, Coahuila, México C.P 27230

Contact: Name: Elizabeth Martínez Velázquez Phone: 871-713-9350

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

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	RANGE ( WHERE APPROPRIATE) AND DETECTION LIMIT
Chemical <sup>F</sup>	Raw Materials	Atomic Absortion	ASTM E1097 ASTM E841 ASTM D3635	0.000 3 % Cu to 10 % Cu 0.000 08 % Zn to 10 % Zn 0.001 % Pb to 10 % Pb 0.005 % Bi to 10 % Bi 0.004 % Sb to 10 % Sb 0.0002 % Mn to 10 % Mn 0.000 15 % Cd to 10 % Cd 0.000 03 % Mg to 10 % Mg 0.002 % Tl to 10 % Tl 0.0006 % Fe to 10 % Fe 0.01 % Sn to 10 % Sn 0.03 % As to 10 % As 0.000 5 % Co to 10 % Co 0.000 6 % Cr to 10 % Cr 0.001 % Ni to 10 % Ni 0.000 1 % Ca to 10 % Ca 0.05 % Se to 10 % Se 0.003 % Al to 10 % Al
		Volumetric Test	ISO 11427 ISO 13756 ASTM E478	10 % Fe to 100 % Fe 10 % Cu to 100 % Cu 10 % Zn to 100 % Zn 10 % Ca to 100 % Ca 10 % Pb to 100 % Pb
		Gravimetric Test	ISO 10251 ASTM E53	1% S to 99 % S 0.000 3 % Si to 99 % Si 20 % Ba to 99 % Ba 20 % Sr to 99% Sr 10 % Mo to 100 % Mo 0.000 3 % Insoluble to 99 % Insoluble 50 % Cu (Electrolysis) to 99 % Cu (Electrolysis)
		Fire Assay	ASTM E1805 ASTM E1335 ISO 15248 ISO 19272	Ag: 0.001 kg/t to 999 999 kg/t Au: 0.1 g/t to 999 999 g/t

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this testing at its fixed location.