



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## *Certificate of Accreditation*

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

### ***Laboratorio Tecnológico de Metalurgia LTM, S.A. de C.V.***

***Carretera a Tecoripa Km 3.5, #351, Parque Industrial  
Hermosillo, Sonora, México. CP. 83299***

*(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 and Mechanical 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:

Tracy Szerszen  
President

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

*Initial Accreditation Date:*

January 01, 2020

*Issue Date:*

December 29, 2023

*Expiration Date:*

February 28, 2026

*Revision Date:*

January 15, 2025

*Accreditation No.:*

104432

*Certificate No.:*

L23-950-R1

*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.pjilabs.com](http://www.pjilabs.com)*



# Certificate of Accreditation: Supplement

**Laboratorio Tecnológico de Metalurgia LTM, S.A. de C.V.**

Carretera a Tecoripa Km 3.5 #351, Parque Industrial

Hermosillo, Sonora, México. C.P. 83299

Contact Name: Rodrigo Martinez Peñuñuri Phone: 662- 251-0503

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

FLEX CODE	FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED
F1, F4	Chemical <sup>F</sup>	Ores, Metallurgical and related materials	Determination of Elements	Internal Procedure PT_003, Section 4.3	Inductively Coupled Plasma Optical Emission Spectroscopy (ICP OES)
F1, F4			Fire Assay-Determination of Gold (Au)	Internal Procedure PT_001, Section 4.6	Gravimetric Method
F1, F4			Fire Assay-Determination of Silver (Ag)		
F1, F2			Determination of Silver (Ag)	ASTM E1898	Atomic Absorption Spectroscopy (AAS)
F1, F4			Fire Assay - Determination of Gold (Au)	Internal Procedure PT_003, Section 4.1.3	
F1, F4			Determination of Total Copper Cu)	Internal Procedure PT_011, section 4.3.	
F1, F4			Determination of Sequential Copper (Cu)		
F1, F4			Determination of Sequential Zinc (Zn)	Internal Procedure PT 011, Section 4.4.	
F1, F4			Determination of Elements by Whole Rock Analysis	Internal Procedure PT_012, Section 4.5.	Inductively Coupled Plasma Optical Emission Spectroscopy (ICP OES)
F1, F4			Fire Assay-Determination of Gold (Au)	Internal Procedure PT_003, Section 4.2	Microwave Plasma Atomic Emission Spectroscopy (MP-AES)
F1, F2			Mechanical <sup>F</sup>	Rocks, Metallurgical and Related Materials	Bulk Density

- The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location.
- Flex Code:  
 F0-Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification  
 F1-Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope  
 F2-Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope  
 F3-Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope  
 F4-Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope  
 F5-Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope.