



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TITAN METALLURGY, L.L.C.
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MECHANICAL

Valid To: November 30, 2021

Certificate Number: 2087.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on plain carbon and low alloy steels:

<u>Test</u>	<u>Test Methods</u>
Hardness	
Rockwell (B, C)	ASTM A370, E18
Brinell (3000 kgf)	ASTM A370, E10
Microhardness	
Knoop (100g to 1kg HK)	ASTM E384
Vickers (100g to 1kg HV)	ASTM E384
Tensile, Elongation & Yield, Reduction of Area (Ambient Temperature)	ASTM A370, E8/E8M
Charpy Impact Testing	ASTM E23
Grain Size	ASTM E112
Microcleanliness	ASTM E45, SAE J422
Micro-Etching	ASTM E407
Macro Etching	ASTM E381
Case Depth	SAE J423
Decarburization	ASTM E1077

(A2LA Cert. No. 2087.01) 10/25/2019

Test

Cast Iron Micro-Evaluation

Sample Preparation

Failure Analysis

Scanning Electron Microscope(SEM)/
Energy Dispersive Spectroscopy (EDS)

Chemical

Optical Emission Spectroscopy (OES)
(Al, C, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Si, V)

Test Methods

ASTM A247

ASTM E3

ASM Handbook Volume 11

ASTM E1508

ASTM E415





Accredited Laboratory

A2LA has accredited

TITAN METALLURGY, L.L.C.

Oak Park, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 25th day of October 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2087.01
Valid to November 30, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.