



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

RTI LABORATORIES, INC.
33080 Industrial Road
Livonia, MI 48150
Lloyd Kaufman Phone: 734 422 8000 x109

MECHANICAL

Valid To: November 30, 2020

Certificate Number: 0570.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on fasteners, metals, and alloys:

<u>Test Parameter</u>	<u>Test Methods</u>
Brinell Hardness (500, 1000, 3000 kg)	ASTM E10
Coating Thickness	ASTM B487
Coating Weight	ASTM A90, A90M, A428, A428M
Electron Microscopy (SEM/EDS)	ASTM B748, E986
Environmental Testing: Salt Spray	ASTM B117
Impact Testing (Charpy)	ASTM E23
Metallographic Analysis	
Case Depth	SAE J423
Cast Iron Rating	ASTM A247; SAE J158, J434
Depth of Decarburization	ASTM E1077; SAE J419
Grain Size	ASTM E112 (Comparison Only)
Inclusion Content	ASTM E45 (Method A, C, & D)
Macroetching	ASTM A561, A604, E340, E381
Microetch	ASTM E407
Metallographic Preparation	ASTM E3
Microhardness (HK50-500G, HV0.05-0.5kg)	ASTM E384
MacroVickers	ASTM E72, E384

Test Parameter

Test Methods

Plating Adherence

ASTM B571 (Except Draw)

Rockwell Hardness (B, C, (15, 30) N, (15, 30) T)

ASTM E18, F606, F606M

Tension and Proof Load (0-60,000 lbs at Room Temperature)

ASTM A370, E8; SAE J995;
JIS Z2201, Z2241

Plastic Strain Ratio (r-value)

ASTM E8, E517

Work Hardening Exponent (n-value)

ASTM E646

Metallurgical Failure Analysis

ASTM E2332 (Withdrawn 2013)
And using the methods listed above and
on the Scope of Accreditation 0570.02
in accordance with the ASM Handbook
Vol. 11





Accredited Laboratory

A2LA has accredited

RTI LABORATORIES, INC.

Livonia, 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 31st day of January 2019.

A blue ink signature of the Senior Director of Accreditation Services.

Senior Director, Accreditation Services
For the Accreditation Council
Certificate Number 570.01
Valid to November 30, 2020
Revised October 30, 2020

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