SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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

MECHANICAL

Valid To: October 31, 2022 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:

Test Parameter	**Test Methods**
Brinell Hardness (500, 1000, 3000 kg; 10 mm indenter)	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) up to 300 ft.lbs	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 HK 50, 100, 200, 300, and 500 gf. HV 50, 100, 200, 300, and 500 gf	ASTM E384
MacroVickers 10 kgf	ASTM E92

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/E8M; SAE J995; JIS Z2201, Z2241
Plastic Strain Ratio (r-value)	ASTM E8/E8M, 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Metallurgical Failure Analysis	ASTM E2332 (Withdrawn 2013) And using the methods listed above and on the Scope of Accreditation 0570.02 in accordance with the ASM Handbook Vol. 11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 27th day of January 2021.

Senior Director, Accreditation Services
For the Accreditation Council
Certificate Number 570.01
Valid to October 31, 2022

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