



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ACUREN GROUP INC.
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MECHANICAL

Valid To: December 31, 2023

Certificate Number: 3977.02

In recognition of the successful completion of the A2LA Accreditation Program, accreditation is granted to this laboratory to perform the following types of tests on metals:

<u>Test:</u>	<u>Test Methods ¹:</u>
<u>Chemical Testing</u>	
Chemical Analysis of Materials with Indirect Current Plasma Emission Spectroscopy (ICP)	ASTM E2594, D1976
Chemical Analysis of Materials using combustion (LECO – C, S)	ASTM E1019, E1409; ISO 15350
Scanning Electron Microscopy (EDXA)	ASTM E1508
<u>Mechanical Testing</u>	
Brinell Hardness (3000kg)	ASTM E10
Portable Hardness (UCI)	ASTM A1038
Macro-Vickers (1-10kg)	ASTM E92
Microhardness (HV50-1000g)	ASTM E384, E92
Rockwell Hardness (HRBW, HRC, HR15N, HR30N, HR30TW)	ASTM A370, E18, F606/606M; SAE J1216 (Cancelled 1999) ⁴
Tensile/Tension (Room Temperature to +700°C, ≤ 400,000 lbs. force)	ASTM A370, B557, E8/E8M, F606/606M; JIS 2241; ASME SA370, ASME Section IX QB/QW-150; SAE J1216 (Cancelled 1999) ⁴ ; GMW 3335
Bend	ASTM A370; ASME SA370, ASME Section IX QB/QW-160
Impact (Charpy)	ASTM A370, E23; ASME SA370, ASME Section VIII UG-84
Ductility (Bend)	ASTM E290

<u>Test:</u>	<u>Test Methods ¹:</u>
<u>Mechanical Testing (cont.)</u>	
Nick Break	AWS B4.0; API 1104; CSA Z662
Feritscope	EN/ISO 17655; AWS A4.2M
Weld and Braze Evaluation and Qualification	ASME IX Part QW and QB; API 1104; AWS D1.1/D1.1M Section 4, D1.2/D1.2M Section 3, D1.4/D1.4M Section 6, D1.5/D1.5M Section 5, D1.6/D1.6M Section 6, D1.7/D1.7M Section 4, D1.8/D1.8M Sections 5 & 6, D1.9/D1.9M Section 3, D14.1/D14.1M Section 9, D14.4/D14.4M Section 7, D14.6/D14.6M Section 6, D15.1/D15.1M Sections 10 - 12, D17.1/D17.1M Section 5, B2.1/B2.1M Sections 4 & 5, B2.2/B2.2M Sections 4 & 5; ISO 15614-1; BS EN 287-1, 287-2, 288-3, 288-4, 1321; ASTM A488; NACE MR0175/ISO15156-1, 15156-2, 15156-3
<u>Corrosion/ Environmental Testing</u>	
Pitting and Crevice Corrosion Resistance	ASTM G48, A923, G46
Immersion Corrosion	ASTM G31
Microbiological Corrosion	NACE TM 212
<u>Metallography</u>	
Preparation of Specimens	ASTM E3
In-situ Metallography	ASTM E1351
Case Depth	SAE J423
Microstructure	ASTM A247, A923
Microetch	ASTM E407
Macroetch	ASTM A604, A561, E381
Inclusion Content	ASTM E45 (Method A); SAE J422
Intergranular Attack	ASTM A262
Average Grain Size	ASTM E112 (Chart Comparison)

<u>Test:</u>	<u>Test Methods ¹:</u>
<u>Metallography (cont.)</u>	
Volume Fraction by Systematic Manual Point Count	ASTM E562
Coating Thickness by Cross Section	ASTM B487
Failure Analysis	Using ASM Handbook 11 and the test methods listed on this scope.

Dimensional Testing ²:

Parameter	Range	Technique/ Method
Linear ³ Work Piece Measurement	Up to 1 in Up to 6 in	Micrometer Caliper

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

² This laboratory offers commercial dimensional testing service only.

³ This test is not equivalent to that of a calibration.

⁴ This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited.

ASTM A653M, ASTM D618, CSA G40.20, CSA G40.21, CSA Z245.1, CSA Z245.11, CSA Z245.12, CSA Z245.15, ISO 898 Part 1, JIS B 1051 Part 1, SAE J429, J1199, API 5CT, API 5C7, API 5D, API 5L, API 5LC, API 5LS, API 5LX, API 6A, API 7, API 7K, API 7-1, API 9A, API 11B, API 12C, API 650.



Accredited Laboratory

A2LA has accredited

ACUREN GROUP INC.

Edmonton, Alberta, Canada

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 10th day of December 2021.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3977.02
Valid to December 31, 2023

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