SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CANADA INC.
15 High Ridge Court
Cambridge ON, Canada N1R7L3
Roger Graham Phone: +1 519 621-8191
roger.graham@element.com

MECHANICAL

Valid To: November 30, 2028 Certificate Number: 6526.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on cast, forged, welded, or pressed metal components:

Test(s):	**Test Method(s):**
Chemical	
Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Inert Gas Fusion Techniques	ASTM E1019, ASTM A751
Chemical Analysis of Carbon, Low-Alloy Steel and Aluminum and Aluminum Alloys by OES (Optical Emission Spectroscopy) Quantitative Analysis: Aluminum Alloys Carbon and Low Alloy Steels	CHE-1; ASTM E1251, ASTM E415, ASTM A751
Analysis of Metals and Metal Alloys THERMO ICAP 6500 and THERMO iCAP PRO XP Aluminum Alloys Carbon and Low Alloy Steels Cast Irons Cobalt Alloys Copper and Brass Alloys Nickel Alloys Stainless Steels Titanium Alloys Tool Steels Zinc Alloys	CHEM-1007; ASTM D1976[1], ASTM A751

Uncontrolled If Printed

Test(s):	Test Method(s):
Chemical (continued)	
Analysis of Oxygen, Nitrogen and Hydrogen by Eltra Elementrac ONH-p Combustion Analysis of Hydrogen in Steel and Ferrous Alloy Carbon and Low Alloy Steels Cast Irons Cobalt Alloys Nickel Alloys Stainless Steel Titanium and Titanium Alloys Tool Steels	CHEM-20; ASTM E1409, ASTM E1447, ASTM E1937[1], ASTM E1019[1], ASTM A751
Mechanical	
Tension	ASTM A370, ASTM B557/557M, ASTM E8/E8M *(except Annex A1)*, ASTM A770/A770M
n – Value	ASTM E646
r – Value	ASTM E517
Impact (Charpy)	ASTM E23, ASTM A370
Hardness Rockwell (A, B, C, E, F, 15N, 30N, 45N, 15T, 30T, 45T) Brinell (500kg to 3000kg) Pencil	ASTM E10, ASTM E18, ASTM D3363, ASTM A370
Mechanical Properties of Fasteners, Washers, and Rivets	ASTM F606/F606M (*except Sections 5, 6 & 7*)
Tensile	JIS Z 2241
Metallographic Evaluation	
Metallographic Preparation	ASTM E3
Inclusion Ratings by Image Analysis	ASTM E1245
Macroetching	ASTM E340, ASTM E381
Microetching	ASTM E407
Inclusion Content	ASTM E45
Microstructure of Cast Iron	ASTM A247
Dendrite Arm Spacing	SAE ARP 1947 (Only for section 4.4)
Density	ASTM B962, ASTM B311

Uncontrolled if printed

Test(s):	Test Method(s):
Metallographic Evaluation continued	
Visual and Macroscopic Evaluation of Welds	ISO 5817 (*excluded: beam welds*); AWS D1.1 (Sections 6.10.1, 6.10.4, 6.12.4, 6.12.6, 6.13.2, 6.14.3, 6.23.1, 6.23.2), AWS D1.2 (Sections 3.6, 3.7, 3.8, 3.15, 3.21, 5.14, 5.2, 6.4, 6.4.5.2 and 6.4.5.5); CSA-W47.1 (Sections 9.9.8, 9.10.3, 9.11, 9.14, 11.6, 11.7)
Determination and Acceptance of Boiler and Pressure Vessel Code (Sections II only)	SA-193/SA-193M, SA-194/SA-194M, SA-213/SA-213M, SA-240/SA-240M, SA-325, SA-370, SA-450/SA-450M, SA-530/SA-530M (e*xcept Section 20)*, SA- 540/SA-540M, SA-962/SA-962M; III, Section VIII Only for: UG-84 and Section IX Only for: QW-144, QW-150, QW- 160, QW-184, QW-193 (e*xcept Section 1.2*), QW-194, QW-462.1, QW- 462.4, QW-462.5, QW-462.12 ASME Section II Part A, Section II Part B, Section VIII, Section IX
Microhardness Knoop (25g to 1000g) Vickers (50g to 1000g) Macrohardness Vickers (5kg to 30kg)	 ASTM E384 ASTM E92 ASTM E92
Bend	ASTM A370, ASTM E190; AWS D1.1; CSA-W47.1 (Sections, 11.7 or 9.11.1)
Ferrite Testing	ASTM A800/A800M, ASTM E562
Depth of Decarburization	ASTM E1077; SAE J419
Grain Size	ASTM E112
Metallographic Evaluation/ Corrosion Testing	
Intergranular Corrosion	ASTM A262, ASTM G28
Pitting Corrosion	ASTM G48

Uncontrolled if Printed

Test(s):	Test Method(s):
Metallographic Evaluation/ Corrosion Testing (continued)	
Corrosion	ASTM A923, ASTM A1084, ASTM B858, ASTM C1617
Coating Testing	
Coating Weight	ASTM A90, ASTM B767
Coating Thickness	ASTM B487, ASTM B499, ASTM B244; ASTM D7091, ASTM D1400; ISO 2808
Abrasion	ASTM D4060
Environmental/ Corrosion Testing	
Corrosion	ASTM D2803; Chrysler LP- 463PB-52-01, Chrysler LP-463PB-22-01; Ford CETP 00.00-L-467; GMW 14124 *(except Cycles H, N, R, T, X*), GMW14872, GMW 15288; SAE J2334
Salt Spray Testing	ASTM B117, ASTM B368, ASTM G85; FLTM BI_103-01; ISO 9227; JISZ2371; TSH 1552G; GMW 3286, GMW 14458;
Water Resistance of Coatings / Water Immersion	ASTM D870; FLTM BI 104-01
Humidity	ASTM D1735, ASTM D4585, ASTM D2247; GMW 14729
Color	ASTM D2244, ASTM E1164
Chip or Gravel Resistance	ASTM D3170; SAE J400; GMW 14700
Adhesion	ASTM D3359, ASTM D522; FLTM BI 106-01; GMW 14829; ISO 2409
Gloss/Haze Measurements	ASTM D523
Evaluations	ASTM D610, ASTM D714, ASTM D1654; GMW 15356, GMW 15357, GMW 15358, GMW 15359, GMW 15282
Fuel Resistance of Automotive Exterior Materials and Components	GMW 14334; Chrysler 463PB-31-01; GMW 14671 (*Sections 4.11.1, 4.11.2, 4.11.3, 4.11.5)*

[1] Modified Method

Uncontrolled if printed

Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CANADA INC.

Cambridge, Ontario, Cananda

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 19th day of October 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6526.01
Valid to November 30, 2028

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

Uncontrolled if printed