



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](mailto:roger.graham@element.com)

MECHANICAL

Valid To: November 30, 2024

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:

o36e3453ET2 0 Td80 Tw 21.598 0 Td(:)Tj-0 eFEM2 BGSECESECE Chemical

Standard Test Methods for Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys
---

Analysis of Oxygen, Nitrogen and Hydrogen by Eltra Elementrac ONH-p Combustion	CHEM-20 <sup>1</sup> ; ASTM E1409; ASTM E1447; ASTM E1937 <sup>1</sup> ; ASTM E1019 <sup>1</sup>
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	
Tension	ASTM A370; ASTM B557/557M; ASTM E8/E8M ( <i>except for Annexes 2 &amp; 10</i> ); ASTM A770/A770M
n – Value	ASTM E646
r – Value	ASTM E517
Impact (Charpy)	ASTM E23
Hardness Rockwell (A, B, C, E, F, 15N, 30N, 45N, 15T, 30T, 45T) Brinell (500kg to 3000kg) Pencil	ASTM E10; ASTM E18; ASTM D3363
Mechanical Properties of Fasteners, Washers, and Rivets	ASTM F606/F606M ( <i>except Sections 5 &amp; 6</i> )
Hydrogen Embrittlement	ASTM F519 ( <i>except Annex A5</i> )

_____	
_____	
Moist SO <sub>2</sub>	ASTM G87
Abrasion	ASTM D4060
Visual and Macroscopic Evaluation of Welds	ISO 5817 ( <i>excluded: beam welds</i> ); AWS D1.2 (Sections 3.6, 3.7, 3.8, 5.14, 5.2, 6.4, and 6.4.5.5); CSA-W47.1 (Sections 9.9, 9.10, 9.11, 9.14, 11.6, 11.7); AWS D1.1; CSA-W47.2 (Sections 10.4, 10.5, 10.6, 10.7)
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 ( <i>Except for: section 20</i> ); 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-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

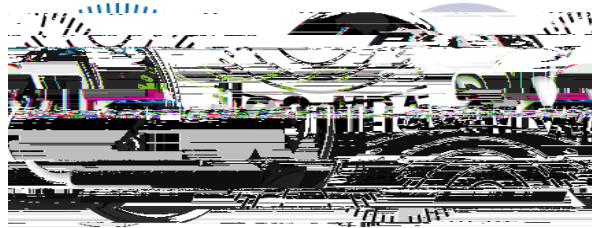
Microhardness  
Knoop (25g to 1000g)



_____	
_____	
Salt Spray Testing	ASTM B117; FLTM BI103-01; ISO 9227; JISZ2371; TSH 1552G; GMW 3286; ASTM B368; GMW 14458; ASTM G85; SAE J2334; GMW14872; GMW14124 ( <i>except Cycle H, N, R, T</i> )
Water Resistance of Coatings	ASTM D870; FLTM BI 104-01
Pitting Corrosion	ASTM G48
Humidity	ASTM D1735, GMW 14729; ASTM D4585; ASTM D2247;
Color	ASTM D2244; ASTM E1164
Chip or Gravel Resistance	ASTM D3170; SAE J400; GMW 14700
Adhesion	ASTM D3359; FLTM BI 106-01; GMW 14829; ASTM D522; ISO 2409
Gloss/Haze Measurements	ASTM D523
Evaluations	ASTM D610; ASTM D714; GMW 15356; GMW 15357; GMW 15358; GMW 15359; ASTM D1654; GMW 15282
Water Immersion	ASTM D870; FLTM BI 104-01
Fuel Resistance of Automotive Exterior Materials and Components	GMW 14334; Chrysler 463PB-31-01
Coatings Performance	GMW 14671 (Sections 3.9.1 & 3.9.2)

<sup>1</sup> Modified Method





A2LA has accredited

# ELEMENT MATERIALS TECHNOLOGY CANADA INC.

for technical competence in the field of