TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory:	**Element Materials Technology Canada Inc.**
Location Name or Operating as (if applicable):	Montreal Laboratory
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SCC File Number:	15378
Provider:	BNQ-EL
Provider File Number:	30122-1
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Mechanical/Physical Non-Destructive Examination
Initial Accreditation:	1999-04-29
Most Recent Accreditation:	2023-03-03
Accreditation Valid to:	2027-04-29

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.
Note: This scope of accreditation is also available in French as a separately issued document.

Canada

METALLIC ORES AND PRODUCTS

Articles of Metal:

Cast, Forged, Welded or Pressed Metal Components

(Coating & Plating)

ASTM A90 & A90M	Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
ASTM B137	Standard Test Method for Measurement of Coating Mass Per Unit Area on Anodically Coated Aluminum
ASTM B244	Standard Test Method for Measurement of Thickness of Anodic Coatings on Aluminum and of Other Nonconductive Coatings on Nonmagnetic Basis Metals with Eddy-Current Instruments
ASTM D522	Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
ASTM D2794	Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
ASTM D3359	Standard Test Methods for Rating Adhesion by Tape Test
ASTM D3363	Standard Test Method for Film Hardness by Pencil Test
ASTM D7091	Standard Practice for Nondestructive Measurement of Dry Film Thickness of Nonmagnetic Coatings Applied to Ferrous Metals and Nonmagnetic, Nonconductive Coatings Applied to Non-Ferrous Metals

(Corrosion)

ASTM A262	Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels
ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus
ASTM D610	Standard Practice for Evaluating Degree of Rusting on Painted Steel Surfaces
ASTM D714	Standard Test Method for Evaluating Degree of Blistering of Paints
ASTM D1654	Standard Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments Except for: Paragraphs 8.1.4 and 8.1.5
ASTM G48	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution Only for: *Method A & Method C*
ASTM G110	Standard Practice for Evaluating Intergranular Corrosion Resistance of Heat Treatable Aluminum Alloys by Immersion in Sodium Chloride + Hydrogen Peroxide Solution

(Mechanical)

ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products. Only for: *Sections 1 to 18 and 20 to 30 and appendices A1 and A2, except for A2.3 and appendices A3 and A8*
ASTM B557/B557M	Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
ASTM E8/E8M	Standard Test Methods for Tension Testing of Metallic Materials
ASTM E10	Standard Test Method for Brinell Hardness of Metallic Materials
ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials
ASTM E92	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials Except for: *Knoop Hardness*
ASTM E208	Standard Test Method for Conducting Drop-Weight Test to Determine Nil-Ductility Transition Temperature of Ferritic Steels Only for: *P2 and P3 specimens*
ASTM E290	Standard Test Methods for Bend Testing of Material for Ductility
ASTM E384	Standard Test Method for Microindentation Hardness of Materials Except for: Knoop Hardness
ASTM F519	Standard Test Method for Mechanical Hydrogen Embrittlement Evaluation of Plating/Coating Processes and Service Environments Only for: *Sections 6, 11 and 12 and for Type 1a.1 Specimen only*
ASTM F606/F606M	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets Sections 1 to 4
SAE J429	Mechanical and Material Requirements for Externally Threaded Fasteners

(Metallography)

ASTM A247	Standard Test Method for Evaluating the Microstructure of Graphite in Iron Castings
ASTM B487	Standard Test Method for Measurement of Metal and Oxide Coating Thickness by Microscopical Examination of Cross Section
ASTM E3	Standard Guide for Preparation of Metallographic Specimens
ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials
ASTM E112	Standard Test Methods for Determining Average Grain Size Except for: *Paragraph 11*
ASTM E340	Standard Practice for Macroetching Metals and Alloys
ASTM E381	Standard Method of Macroetch Testing Steel Bars, Billets, Blooms, and Forgings
ASTM E407	Standard Practice for Microetching Metals and Alloys
ASTM E1077	Standard Test Methods for Estimating the Depth of Decarburization of Steel Specimens Except for: Section 7.5 Chemical Analysis Methods
ASTM F2111	Standard Practice for Measuring Intergranular Attack or End Grain Pitting on Metals Caused by Aircraft Chemical Processes Except for: *6, 7.1 to 7.3*
SAE J423	Methods of Measuring Case Depth

(Weld Properties: ASME Boiler and Pressure Vessel Code - Sections II, III, VIII and IX)

ASME IX (QB-150)	Brazing General Requirements - Tension Tests
ASME IX (QB-160)	Brazing General Requirements - Guided Bend Tests
ASME IX (QB-170)	Brazing General Requirements - Peel Tests
ASME IX (QB-180)	Brazing General Requirements - Sectioning Test and Workmanship Coupons
ASME IX (QW-150)	Welding General Requirements - Tension Tests
ASME IX (QW-160)	Welding General Requirements - Guided Bend Tests
ASME IX (QW-170)	Welding General Requirements - Notch Toughness Tests
ASME IX (QW-180)	Welding General Requirements - Fillet Weld Tests
ASTM El90	Standard Test Method for Guided Bend Test for Ductility of Welds
AWS D1.1	Structural Welding Code - Steel Only for: *Section 5 part A and Section 6 part B*
AWS D1.2	Structural Welding Code - Aluminum Part B, sections 3.6, 3.7 and 3.8 only
AWS D17.1	Specification for Fusion Welding for Aerospace Applications Only for: *sections 5.4.8 and 7, except 7.4*
CSA-W47 .1	Certification of companies for fusion welding of steel Only for: *9.10.2, 9.10.3, 9.15.4, and 11.6 except 11.6.2*
CSA-W47 .2	Certification of companies for fusion welding of aluminum Only for: *Sections 10.5, 10.6, 10.7 and 11.7*

Number of Scope Listings: 52

Notes:

ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories

AREMA: American Railway Engineering and Maintenance-of-Way Association

ASME: American Society of Mechanical Engineers

ASTM: ASTM International

AWS: American Welding Society

CSA: Canadian Standards Association

SAE: Society of Automotive Engineers

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
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