



TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 65

Legal Name of Accredited Laboratory: Element Materials Technology Canada Inc.

Location Name or Operating as (if applicable): BURLINGTON LABORATORY

Contact Name: Roger Graham

Address: 1440 Grahams Lane, Unit #11, Burlington, ON, L7S 1W3

Telephone: + 905 631-7785

Fax: + 905 631-7786

Website: www.element.com

Email: roger.graham@element.com

SCC File Number:	15106
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Chemical/Physical Mechanical/Physical
Initial Accreditation:	1989-12-12
Most Recent Accreditation:	2019-02-23
Accreditation Valid to:	2021-12-12

SCC Group Accreditation:

This laboratory is a part of a Group Accreditation with the following facilities in accordance with SCC's policy on Group Accreditation documented in the Accreditation Services Accreditation Program Overview.

15012 - Element Materials Technology Canada Inc. - CAMBRIDGE LABORATORY, 15 High Ridge Court, Cambridge, ON, N1R 7L3, Accredited Laboratory No. 6.



METALLIC ORES AND PRODUCTS

Articles of Metal:

All Forms, Articles of Metal

(Chemical Analysis)

ASTM E1019	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
CHE-1	Chemical Analysis of Carbon, Low-Alloy & Stainless Steel and Aluminum and Aluminum Alloys, Copper and Copper Alloys by OES (Optical Emission Spectroscopy) Quantitative Analysis of: (ASTM E1251, E1086 & E415 Modified)
	Aluminum Alloys
	Carbon and Low Alloy Steels
	Copper (Modified)
	Nickel Alloys
CHEM-1004	Stainless Steels
	Analysis of Metals and Metal Alloys - THERMO ICAP 6500 (ASTM D1976 Modified)
	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-20	Analysis of Oxygen, Nitrogen and Hydrogen by Eltra ONH2000 Combustion (ASTM E1409, E1447, E1937 Modified, & ASTM E1019 Modified)
	Analysis of Hydrogen in Steel and Ferrous Alloy
	Carbon and Low Alloy Steels
	Cast Irons
	Cobalt Alloys
	Hydrogen in Steel and Ferrous Alloy



	Nickel Alloys
	Stainless Steel
	Titanium and Titanium Alloys
	Tool Steels

(Coating and Plating)

ASTM A90 / A90M	Standard Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings
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(Fastener Testing)

ASTM F606	Standard Test Methods for Determining the Mechanical Properties of Externally and Internally Threaded Fasteners, Washers, Direct Tension Indicators, and Rivets
ISO 898-1 (Only for: Tensile Testing, Proof Load and Rockwell Hardness)	Mechanical Properties of Fasteners Made of Carbon Steel and Alloy Steel Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread
ISO 898-2 (Only for: Proof Load and Rockwell Hardness)	Mechanical Properties of Fasteners Made of Carbon Steel and Alloy Steel Part 2: Nuts with specified property classes -Coarse thread and fine pitch thread

(Mechanical)

ASME SA-370	Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products Except for: Sections 15, 17, 19 and 30
ASTM B557 / 557M	Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products
ASTM E23	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials Except for: Section 8.4



ASTM E517	Standard Test Method for Plastic Strain Ratio for Sheet Metal
ASTM E646	Standard Test method for Tensile Strain - Hardening Exponents (n-Value) of Metallic Sheet Materials(Only for: Method B)
ASTM E8 / E8M	Standard Test Methods for Tension Testing of Metallic Materials
CSA G40.20	General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel
ISO 6892-1	Metallic materials - Tensile testing Part 1: Tensile testing Method of test a room temperature
JIS Z2241	Metallic materials - Tensile testing Method of test at room temperature

(Metallurgical)

ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials
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Number of Scope Listings: 19

Notes:

ISO/IEC 17025: 2005: General Requirements for the Competence of Testing and Calibration Laboratories

CHEM/CH-1: In house procedures, chemical analysis

MET: In house procedures, metallurgical properties

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
Vice-President, Accreditation Services
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