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SCOPE OF ACCREDITATION

Natural Resources Canada
CANADIAN EXPLOSIVES RESEARCH LABORATORY
1 Haanel Drive, Bldg 12
Ottawa, ON
K1A 1M1

Accredited Laboratory No. 141
(Conforms with requirements of ISO/IEC 17025:2017)

CONTACT: Samuel Maach
TEL: (613)947-7534
FAX: (613) 995-1230
EMAIL: samuel.maach@canada.ca
URL: http://www.nrcan.gc.ca/explosives/offices-laboratories/9855

CLIENTS SERVED: Both internal and external contracts

FIELDS OF TESTING: Chemical/Physical, Electrical/Electronic, Thermal & Fire Resistance

INITIAL ACCREDITATION DATE: 1994-02-01

SCOPE ISSUED ON: 2019-07-02

ACCREDITATION VALID TO: 2021-02-01

CHEMICALS AND CHEMICAL PRODUCTS

(Explosives and Energetic Materials)

CERL AC 104 UN 1(c)(i)/ 2(c)(i)/C.1/O.2	Time/Pressure Test and HSL Flash Composition Test (Appendix 7 of TDG Manual)

CERL AC 105 EN 13630-2	Determination of thermal stability of detonating cords and safety fuses
CERL AC 106 EN 13630-3	Determination of sensitiveness to friction of the core of detonating cords
CERL AC 107 EN 13630-4	Determination of sensitiveness to impact of detonating cords
CERL AC 108 EN 13630-5	Determination of resistance to abrasion of detonating cords
CERL AC 109 EN 13630-6	Determination of resistance to tension of detonating cords
CERL AC 110 EN 13630-7	Determination of reliability of initiation of detonating cords
CERL AC 111 EN 13630-8	Determination of resistance to water of detonating cords and safety fuses
CERL AC 112 EN 13630-9	Determination of transmission of detonation from detonating cord to detonating cord
CERL AC 113 EN 13630-10	Determination of initiating capability of detonating cords
CERL AC 114 EN 13630-11	Determination of velocity of detonation of detonating cords
CERL AC 115 EN 13630-12	Determination of burning duration of safety fuses
CERL AC 116 UN 6(d)	Unconfined Package Test
CERL AC 12 UN 3(a)(i)	Bureau of Explosives Impact Machine
CERL AC 123 EN 13763-3	Determination of sensitiveness to impact
CERL AC 124 EN 13763-9	Determination of resistance to bending of detonators
CERL AC 125 EN 13763-7	Determination of mechanical strength of leading wires, shock tubes, connections, crimps, closures
CERL AC 126 EN 13763-11	Determination of resistance to damage by dropping of detonators and relays
CERL AC 127 EN 13763-27	Definitions, methods and requirements for electronic systems S.4.5.6.1 slow temperature change tests and S. 4.5.6.2 rapid temperature change test
CERL AC 128 EN 13763-12	Determination of resistance to hydrostatic pressure
CERL AC 129 EN 13763-15	Determination of equivalent initiating capability
CERL AC 13 UN 3(a)(ii)	BAM Fallhammer
CERL AC 130 EN 13763-4	Determination of abrasion of leading wires and shock tubes
CERL AC 131 EN 13763-5	Determination of resistance to cutting damage of leading wires
CERL AC 132 EN 13763-6	Determination of resistance to cracking in low temperatures of leading wires
CERL AC 14 UN 3(a)(v)	Modified Type 12 Impact Tool

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CERL AC 15 UN 3(b)(i)	BAM Friction Apparatus
CERL AC 16 UN 3(c)	Thermal Stability Test at 75°C
CERL AC 17 UN 3(d)	Small-Scale Burning Test
CERL AC 19 UN 4(a)	Thermal Stability Test for Unpackaged Articles and Packaged Articles
CERL AC 20 UN 5(a)	Cap Sensitivity Test
CERL AC 27 UN 5(c)/6(c)	External Fire Test for Division 1.5 and External Fire (Bonfire) Test
CERL AC 57 ASTM E 537	The Thermal Stability of Chemicals by Differential Scanning Calorimetry
CERL AC 63 ASTM E 1981	Assessing the Thermal Stability of Materials by Methods of Accelerating Rate Calorimetry
CERL AC 70 UN 4(b)(ii)	Twelve Metre Drop Test for Unpackaged Articles, Packaged Articles and Packaged Substances
CERL AC 8 UN 1(a)/2(a)/A.5	UN Gap Test
CERL AC 22 UN 1(c)(ii)/2(c)(ii)/5(b)(ii)	Internal Ignition Test and USA DDT Test
CERL AC 76 UN 1(b)/2(b)/8(c) or E.1	Koenen Test
CERL AC 25 UN 6(a)/6(b)	Single Package Test Stack Test

Notes:

ASTM: American Standard of Testing Materials
ISO/IEC 17025-2017): General Requirements for the Competence of Testing and Calibration Laboratories
CERL: Canadian Explosives Research Laboratory Internal Test Method Number
Recommendations on the Transport of Dangerous Goods - Manual of Tests and Criteria, Fifth Revised Edition, United Nations, New York and Geneva, 2009 ST/SG/AC.10/11/Rev.5
UN: United Nations

Elias Rafoul, Vice President
Accreditation Services

Date: 2019-07-02

Number of Scope Listings: 39

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SCC 1003-15/203
Partner File #0
Partner: None