



SCOPE OF ACCREDITATION

CAMBRIDGE MATERIALS TESTING LIMITED Mississauga Division
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L5N 6B9

Accredited Laboratory No. 447
(Conforms with requirements of ISO/IEC 17025:2005)

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CLIENTS SERVED: Commercial any party

FIELDS OF TESTING: Chemical/Physical, Mechanical/Physical

INITIAL ACCREDITATION DATE: 2002-05-13

SCOPE ISSUED ON: 2019-05-13

ACCREDITATION VALID TO: 2022-05-13

CHEMICALS AND CHEMICAL PRODUCTS

Chemical Compounds: (not elsewhere specified)

Liquid

ASTM D4327

Test Method for Anions in Water by Chemically Suppressed Ion



	Chromatography, including extraction methods QTP 25M, QOP 70M
ASTM E70	Test Method for pH of Aqueous Solutions with the Glass Electrode
EPA Method 7196A	Chromium, Hexavalent (Colorimetric)

ELASTOMERS AND PROTECTIVE AND OTHER COATINGS

Paints; Varnishes; Inks; Coatings; and Allied Products:

ASTM F519	Standard Test Method of Mechanical Hydrogen Embrittlement Evaluation of Plating / Coating Processes and Service Environments
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Plastics; Resins and Rubbers:

Plastics

ASTM D1622	Test Method for Apparent Density of Rigid Cellular Plastics
ASTM D2584	Test Method for Ignition Loss of Cured Reinforced Resins
ASTM D3418	Test Method for Transition Temperatures of Polymers by Differential Scanning Calorimetry
ASTM D4495	Test Method for Impact Resistance of Poly (Vinyl Chloride) (PVC) Rigid Profiles by Means of a Falling Weight
ASTM D570	Test Method for Water Absorption of Plastics
ASTM D790	Test Methods for Flexural Properties of Un-reinforced and Reinforced Plastics and Electrical Insulating Materials
ASTM D792	Test Method for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D882	Test Method for Tensile Properties of Thin Plastic Sheet
ASTM E1131	Test Method for Compositional Analysis by Thermogravimetry
ASTM E1252	Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis
ASTM E1269	Test Method for Determining Specific Heat Capacity by Differential Scanning Calorimetry
ASTM E96/E96M	Standard Test Method for Water Vapor Transmission of Materials
ISO 11357-3	Plastics-Differential Scanning Calorimetry (DSC) - Part 3: Determination of Temperature and Enthalpy of Melting and Crystallization
ISO 3451 Part 1	Plastics-Determination of Ash



Resins and Rubbers

ASTM D2240 Type A,D Test Method for Rubber Property - Durometer Hardness

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Occupational Health and Safety:

Air Monitoring

ASTM D3464	Test Method for Average Velocity in a Duct Using a Thermal Anemometer
ASTM D4490	Practice for Measuring the Concentration of Toxic Gases or Vapors Using Detector Tubes
AWS F1.1M	Method for Sampling Airborne Particulates Generated by Welding and Allied Processes
AWS F1.5M	Methods for Sampling and Analyzing Gases from Welding and Allied Processes Carbon Monoxide as per QTP 41M
NIOSH 0500 Modified	Particulates Not Otherwise Regulated, Total
NIOSH 0600 Modified	Particulates Not Otherwise Regulated, Respirable
NIOSH 1501	Hydrocarbons, Aromatic
NIOSH 5026	Oil Mist, Mineral
NIOSH 7300	Elements by ICP (Nitric/Perchloric Acid Ashing)
NIOSH 7602	Silica, Crystalline by IR (KBr pellet)
NIOSH 7903	Acids, Inorganic
OSHA 7	Organic Vapours
QTP 41M	Test Method for Carbon Monoxide in the Atmosphere (Continuous Measurement by Nondispersive Infrared Spectrometry)

Asbestos

(Asbestos by PLM)

EPA/600/R-93/116 Test Method for the Determination of Asbestos in Bulk Building Materials

Noise

CSA Z107.56 Procedures for the Measurement of Occupational Noise Exposure



MARKETPLACE PRODUCTS-CONSUMER AND BUSINESS

Furniture and Consumer Articles:

Hazardous Products

BS EN 71-1	Safety of Toys - Part 1: Mechanical And Physical Properties
	Except for: Section 8.15 - Leakage of liquid filled Toys Section 8.17 - Durability of mouth-actuated toys Section 8.22 - Dynamic strength Section 8.26 - Brake performance Section 8.27 - Strength of toy scooter steering tubes Section 8.28 - Determination of emission sound pressure levels Section 8.31 - Toy chest lids Section 8.35 - Magnetic flux index
Health Canada Method C-02.2	Determination of Total Lead in Surface Coating Materials in Consumer Products
Health Canada Method C-02.3	Determination of Total Lead in Polyvinyl Chloride Products by Closed Vessel Microwave Digestion
Health Canada Method C-02.4	Determination of Total Lead and Cadmium in Metallic Consumer Products
Health Canada Method C03	Determination of Leachable Arsenic (As), Selenium (Se), Cadmium (Cd), Antimony (Sb), and Barium (Ba) in Applied Coatings
Health Canada Method M00.1	Small Components
Health Canada Method M00.2	Sharp Edges
Health Canada Method M00.3	Sharp Points
Health Canada Method M01.1	Reasonably Foreseeable Use - Toys

Household Products

16 CFR Part 1303	Ban Of Lead-Containing Paint And Certain Consumer Products Bearing Lead-Containing Paint
16 CFR Part 1500.44	Method of Determining Extremely Flammable and Flammable Solids



16 CFR Part 1700 ASTM D1976	Requirements for the Special Packaging of Household Substances Test Method for Elements in Water by Inductively Coupled Argon Plasma Atomic Emission Spectroscopy, including extraction methods EPA Method 3050B, EPA Method 3051A, EPA Method 3052, QTP 25M
CPSC-CH-C1001-09.3	Standard Operating Procedure for Determination of Phthalates
CPSC-CH-E1001-08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Children' s Metal Products (Including Children' s Metal Jewelry)
CPSC-CH-E1002-08.3	Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products
CPSC-CH-E1003-09.1	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CSA Z76.1	Reclosable Child Resistant Packages
Health Canada Method C-23	Determination of the Flame Projection and Flashback of Consumer Products Enclosed in Pressurized Containers
Health Canada Method C-34 Modified	Determination of Phthalates in Polyvinyl Chloride Consumer Products
ISO 8317	Child resistant packaging - Requirements and testing procedures for reclosable packages

(Toys)

16 CFR Part 1500.50-53	Test Method for Simulating Use and Abuse of Toys and Other Articles Intended for Use by Children
16 CFR Part 1501	Method for Identifying Toys and Other Articles Intended for Use by Children under 3 Years of Age which Present Choking, Aspiration, or Ingestion Hazards Because of Small Parts
16 CFR Part 1510	Requirements for rattles
16 CFR Part 1511	Requirements for Pacifiers
ASTM F963-16	Standard Consumer Safety Specification for Toy Safety

Only for:

- Section 4.3.5.1 - Paint and Similar Surface Coating Materials
- Section 4.3.5.1(2) - Surface Coating Materials - Soluble Test for Metals
- Section 4.3.5.2 - Toy Substrate Materials
- Section 4.6 - Small Objects (except labeling and/or instructional literature requirements)
- Section 4.7 - Accessible Edges (except labeling and/or instructional literature requirements)
- Section 4.8 - Projections (except bath toy projections)
- Section 4.9 - Accessible Points (except labeling and/or instructional literature requirements)



Section 4.10 - Wires or Rods
Section 4.11 - Nails and Fasteners
Section 4.12 - Packaging Film
Section 4.13 - Folding Mechanisms and Hinges, excluding Toy Chests
Section 4.14 - Cords, Straps, and Elastics
Section 4.15 - Stability and Overload Requirements
Section 4.16 - Confined Space
Section 4.17 - Wheels, Tires, and Axles
Section 4.18 - Holes, Clearance, and Accessibility of Mechanisms
Section 4.19 - Simulated Protective Devices
Section 4.20.2 - Toy Pacifiers
Section 4.21 - Projectile Toys
Section 4.22 - Teethers and Teething Toys
Section 4.23.1 - Rattles with nearly spherical, hemispherical, or circular flare ends
Section 4.24 - Squeeze Toys
Section 4.27 - Stuffed and Beanbag-Type Toys
Section 4.32 - Certain Toys with Nearly Spherical Ends
Section 4.35 - Pompoms
Section 4.36 - Hemispheric Shaped Objects
Section 4.39 - Jaw Entrapment in Handles and Steering Wheels
Safety of Toys - Part 3: Migration of Certain Elements

BS EN 71-3

METALLIC ORES AND PRODUCTS

Articles of Metal:

All Forms, Articles of Metal

ASTM E466 Standard Practice for Conducting Force Controlled Constant Amplitude Axial Fatigue Tests of Metallic Materials

NON METALLIC MINERALS AND PRODUCTS

Ceramics; Clay and Clay Products:

(Ceramics; Clays; Bricks and Structural Tile; Refractory and Firebrick; and Porcelain Enamels)

ASTM D6349 Standard Test Method for Determination of Major and Minor



Elements in Coal, Coke, and Solid Residues from Combustion of Coal and Coke by Inductively Coupled Plasma - Atomic Emission Spectrometry

Petroleum Refinery Products: (Including asphalt materials; petrochemicals; fuels and lubricants)

Fuels and Lubricants

ASTM D92	Test Method for Flash and Fire Points by Cleveland Open Cup Tester
ASTM D93	Test Methods for Flash-Point by Pensky Martens Closed Cup Tester
ASTM E1064	Standard Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration
ASTM E1858	Test Method for Determining Oxidation Induction Time of Hydrocarbons by Differential Scanning Calorimetry
Ford ES5L2P-7W092-AA	Transmission Contamination Specification
Ford ESBC3P-7W092-BA	Transmission Contamination Specification
ISO 4406	Hydraulic Fluid Power - Fluids - Method for coding the level of contamination by solid particles
ISO 4407	Hydraulic Fluid Power - Fluid Contamination - Determination of particulate contamination by the counting method using an optical microscope

Soil; Aggregates; Stone; Sand:

*ASTM D6349 listed under **Ceramics; Clay and Clay Products***

Notes:

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

Elias Rafoul, Vice President, Accreditation Services

Date: 2019-05-13

Number of Scope Listings: 70

SCC 1003-15/545

Partner File #0

Partner: None