

## TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

### Scope of Accreditation

Accredited Laboratory No. 86

**Legal Name of Accredited Laboratory:** Intertek Testing Services NA Inc.

Location Name or Operating as (if applicable): **Intertek Cortland Laboratory**

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<b>SCC File Number:</b>	15136
<b>Accreditation Standard(s):</b>	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
<b>Fields of Testing:</b>	Biological Electrical/Electronic Mechanical/Physical Thermal & Fire Resistance
<b>Program Specialty Area:</b>	None
<b>Initial Accreditation:</b>	1991-12-10
<b>Most Recent Accreditation:</b>	2021-03-23
<b>Accreditation Valid to:</b>	2023-12-10

*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.*

Other location: 75 Clinton Avenue, Cortland NY

The following is a Scope of Accreditation for which this testing laboratory has been accredited to ISO/IEC

17025:2005. Note that the parent organization is also accredited as a certification body. The parent organization's Scope of Accreditation for certification activities may be broader than the listing of standards and test methods that appear below. Refer to the parent organization's Scope of Accreditation granted by the SCC for certification activities found at:

<http://www.scc.ca/en/accreditation/product-process-and-service-certification/directory-of-accredited-clients>

Where standards, such as product standards, are listed below, the laboratory is considered accredited only for the testing elements in those standards.

## **ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS**

### **Communications Equipment and Systems:**

#### **Wiring and Related Products**

C22.2 No. 126.1	Metal Cable Tray Systems
C22.2 No. 126.2	Nonmetallic Cable Tray Systems
C22.2 No. 127 UL 66	Equipment and Lead Wires
C22.2 No. 130 UL 515	Requirements for Electrical Resistance Trace Heating and Heating Device Sets
C22.2 No. 210 UL 758	Appliance Wiring Material Products
C22.2 No. 230 UL 1277	Tray Cables
C22.2 No. 233	Cords and Cord Sets for Communication Systems
C22.2 No. 239	Control and Instrumentation Cables
C22.2 No. 245 UL 1309	Marine Shipboard Cable
C22.2 No. 2556 UL 2556	Wire and Cable Test Methods
C22.2 No. 262 UL 2024	Optical Fiber Cable and Communication Cable Raceway Systems
C22.2 No. 271	Photovoltaic Cables
C22.2 No. 48 UL 719	Standard for Nonmetallic-Sheathed Cables
C22.2 No. 96.2 UL 1650	Down Tower Power Cables for Wind Turbine Applications Rated 2 - 35 kV
C68.10 UL 1072	Shielded power cable for commercial and industrial applications, 5 - 46 kV
CSA C22.2 No. 214 UL 444	Communications Cable
CSA C22.2 No. 232	Optical Fiber Cables

### **Components and Assemblies**

#### **Switches and Controls**

CSA C22.2 No. 139	Electrically Operated Valves Except for: clause 7.14 Fatigue test
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CSA C22.2 No. 14	Industrial Control Equipment Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials Clause 6.4 - Overload Relay Calibration Clause 6.5 - Overload Clause 6.10 - Short Circuit Calibration of Test Circuits Clause 6.11 - Short Circuit Overload Relays and Equipment Incorporating Overload Relays Clause 6.12 - Controllers Intended for Use on Circuits Capable of Delivering High Fault Currents Clause 6.13 - Group Fusing Clause 6.14 - Instantaneous Trip Circuit Breakers Clause 6.15.2 - Flammability of Enclosures
CSA C22.2 No. 142	Process Control Equipment
CSA C22.2 No. 177	Clock Operated Switches
CSA C22.2 No. 199	Combustion Safety Controls and Solid-State Igniters for Gas and Oil Burning Equipment
CSA C22.2 No. 3	Electrical Features of Fuel Burning Equipment Except for: Clause 4.8.1 - Switches and Automatic Control Devices Clause 8.4 - Temperature Controls
CSA C22.2 No. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices.

### Transformers

CSA C22.2 No. 107.1	Commercial and Industrial Power Supplies Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 13	Transformers for Luminous Tube Signs, Oil or Gas Burner Ignition Equipment Cold Cathode Interior Lighting
CSA C22.2 No. 173	Transformers for Toy and Hobby Use
CSA C22.2 No. 223	Power Supplies with Extra-Low-Voltage Class 2 Outputs
CSA C22.2 No. 47	Air Cooled Transformers (Dry Type)
CSA C22.2 No. 66-1	Low Voltage Transformers - Part 1: General Requirements Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 66-2	Low Voltage Transformers- Part 2: General Purpose Transformers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 66-3	Low Voltage Transformers- Part 2: Class 2 and Class 3 Transformers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C802	Maximum Losses for Distribution, Power, and Dry-Type Transformers

### Wiring and Related Products

CSA C22.2 No. 0.3	Test Methods for Electrical Wires and Cables Except for: Clause 4.36.3 - Circuit Integrity
CSA C22.2 No. 131	Type TECK 90 Cable
CSA C22.2 No. 208	Fire Alarm and Signal Cable
CSA C22.2 No. 21	Cord Sets & Power-Supply Cords Except for: Clauses 6.11 Mechanical Drop - Hospital Grade Attachment Plug and Cord Connector 6.13 Cycling Heat 6.14 Endurance (Cord Reel) 6.15 Heating (Cord Reel) 6.16 Normal Heating (Cord Reel) 6.19 Endurance (Extension Cord Set Storage Winder) 6.24 Overload 6.25 Abrupt Pull (Cords Employing a Grounding Conductor) 5.26 Improper Insertion
CSA C22.2 No. 38	Thermoset Insulated Wires and Cables
CSA C22.2 No. 49	Flexible Cords and Cables
CSA C22.2 No. 51	Armored Cables
CSA C22.2 No. 75	Thermoplastic Insulated Wires & Cables
CSA C22.2 No. 327	HDPE conduit, conductors-in-conduit and fittings

### (Other)

CSA C22.2 No. 140.3	Refrigerant-Containing Components for Use in Electrical Equipment
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### Electrical Appliances:

### (Safety)

CSA E335-1	Safety of Household and Similar Electrical Appliances-Part 1 General Requirements Except for: Clause 24-Components
CSA E60335-1	Household and similar electrical appliances-Safety- Part 1: General requirements Except for: Clause 24-Components
CSA E60335-2-10	Household and similar electrical appliances-Safety- Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines
CSA E60335-2-13	Household and similar electrical appliances-Safety- Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
CSA E60335-2-29	Household and similar electrical appliances-Safety- Part 2-29: Particular requirements for battery chargers

CSA E60335-2-3	Household and similar electrical appliances-Safety- Part 2-3: Particular requirements for electric irons
CSA E60335-2-41	Safety of Household and Similar Electrical Appliances-Part 2: Particular Requirements for Pumps for Liquids Having a Temperature Not Exceeding 35 Degrees C- General Instructions No 1
CSA E60335-2-54	Safety of Household and Similar Electrical Appliances Part 2: Particular Requirements for Surface-Cleaning Appliances Employing Liquids-General Instructions No 1
CSA E60335-2-69	Household and similar electrical appliances-Safety- Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
CSA E60335-2-8	Household and similar electrical appliances – Safety – Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

### Heating, Refrigerating and Air Conditioning

ANSI/ASHRAE 146	Methods of Testing and Rating Pool Heaters
ANSI/ASHRAE 33	Method of Testing Forced Circulation Air Cooling and Air Heating Coils
10 CFR 430, Subpart B, Appendix O	Uniform Test Method for Measuring the Energy Consumption of Vented Home Heating Equipment
AHRI 1010	Drinking Fountains & Self-Contained, Mechanically-Refrigerated Drinking-Water Coolers
AHRI 1060	Rating Air-To-Air Energy Recovery Ventilation Equipment
AHRI 1110*	Mechanical Transport Refrigeration Units
AHRI 1160	Standard for Performance Rating of Heat Pump Pool Heaters
AHRI 270	Sound Rating of Outdoor Unitary Equipment
AHRI 310/380	Packaged Terminal Air Conditioners
AHRI 320	Water-Source Heat Pumps
AHRI 325	Ground Water Source Heat Pumps
AHRI 330	Ground Source Closed-Loop Heat Pumps
AHRI 365	Commercial and Industrial Unitary Air-Conditioning Condensing Units
AHRI 390	Single Package Vertical Air - Conditioners and Heat Pumps
AHRI 400*	Standard for Liquid-to-Liquid Heat Exchangers
AHRI 410	Forced-Circulation Air-Cooling and Air-Heating Coils
AHRI 430	Central-Station Air-Handling Units
AHRI 440	Room Fan-Coil
AHRI 550/590*	Centrifugal & Rotary Screw Water-Chilling Packages
AHRI 820	Ice Storage Bins
AHRI 840-1998	Unit Ventilators
AHRI 880	Air Terminals
AHRI 910	Performance Rating of Indoor Dehumidifiers

ANSI/AHRI 1200-2008	Performance Rating of Commercial Refrigerated Display Merchandisers and Display Cabinets
ASHRAE 84	Method of Testing Air-To-Air Heat Exchangers
CSA C22.2 No. 104	Humidifiers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 113	Fans and Ventilators Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 117	Room Air Conditioners
CSA C22.2 No. 120	Refrigeration Equipment
CSA C22.2 No. 155	Electric Duct Heaters
CSA C22.2 No. 236	Heating and Cooling Equipment Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 46	Electric Air Heaters
CSA C22.2 No. 63	Household Refrigerators and Freezers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 72	Heater Elements
CSA C22.2 No. 88	Construction and Test of Industrial Heating Equipment
CSA C22.2 No. 92	Dehumidifiers
CSA C273.3	Performance Standard for Split-System Central Air Conditioners and Heat Pumps
CSA C300	Capacity Measurement and Energy Consumption Test Methods for Refrigerators, Combination Refrigerator-Freezers, Freezers
CSA C368.1	Performance Standard for Room Air Conditioners
CSA C370	Cooling Performance of Portable Air Conditioners
CSA C446	Performance of Ground Source Heat Pumps
CSA C655	Performance Standard for Internal Water Loop Heat Pumps
CSA C656	Performance Standard for Single Package Central Air-Conditioners and Heat Pumps
CSA C742	Performance of Automatic Ice-Makers and Ice Storage Bins
CSA C743	Performance Standard for Rating Packaged Water Chillers
CSA C744	Standard for Packaged Terminal Air Conditioners and Heat Pumps
CSA C746	Performance Standard for Rating Large Air Conditioners and Heat Pumps
CSA E335-2-65	Household and similar Electrical Appliances Part 2 Part. Req. for Air Cleaning Appliances
EN 14511-1	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 1: Terms and definitions

EN 14511-2	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 2: Test conditions
EN 14511-3	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods
EN 14511-4	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 4: Requirements
IEC 60335-2-65	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances

**(EPA ENERGY STAR Program Requirements Product Specification for Air Source Heat Pump (ASHP) and Central Air Conditioner Equipment Version 5.0)**

10 CFR 430 Subpart B, Appendix M	Uniform Test Method for Measuring the Energy Consumption of Central Air Conditioners and Heat Pumps
ANSI/ASHRAE 37	Methods of Testing for Rating Electrically Driven Unitary Air-Conditioning and Heat Pump Equipment
AHRI 210/240-94	Unitary Air-Conditioning and Air-Source Heat Pump Equipment
ANSI/AHRI 210/240	Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment

**(EPA ENERGY STAR Program Requirements Product Specification for Commercial Ice Machines Version 3.0)**

10 CFR Part 431, Subpart H	Automatic Commercial Ice Makers
AHRI 810	Performance Rating of Automatic Commercial Ice-Makers

**(EPA ENERGY STAR Program Requirements Product Specification for Dehumidifiers Eligibility Criteria Version 4.0)**

10 CFR Part 430, Appendix X1, Subpart B	Uniform Test Method for Measuring the Energy Consumption of Dehumidifiers
ANSI/AHAM DH-1	Dehumidifiers Only for: Sections 4, 5 and 7 (using a watt-hour meter)
CSA C749	Performance of Dehumidifiers

**(EPA ENERGY STAR Program Requirements Product Specification for Geothermal Heat Pumps Version 3.1)**

AHRI 870	Standard for Performance Rating of Direct GeoExchange Heat Pumps
ISO 13256-1	Water-Source Heat Pumps - Testing and Rating for Performance Part 1: Water-to-air and brine-to-air heat pumps
ISO 13256-2	Water-Source Heat Pumps - Testing and Rating for Performance Part 2: Water-to-water and brine-to-water heat pumps

**EPA ENERGY STAR Program Requirements Product Specification for Light Commercial HVAC Version 3.1)**



10 CFR part 431, Subpart F §431.96	Light Commercial HVAC
ANSI/AHRI 210/240	Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment
ANSI/AHRI 340/360	Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment

**(EPA ENERGY STAR Program Requirements Product Specification for Residential Refrigerators and Freezers Version 5.0)**

10 CFR 430, Subpart B, Appendix A	Uniform Test Method for Measuring the Energy Consumption of Electric Refrigerators and Electric Refrigerator-Freezers
10 CFR 430, Subpart B, Appendix A1	Uniform Test Method for Measuring the Energy Consumption of Electrical Refrigerators and Electrical Refrigerators/Freezers
10 CFR 430, Subpart B, Appendix B	Uniform Test Method for Measuring the Energy Consumption of Freezers
10 CFR 430, Subpart B, Appendix B1	Uniform Test Method for Measuring the Energy Consumption of Freezers

**(EPA ENERGY STAR Program Requirements Product Specification for Room Air Conditioners Version 4.1)**

10 CFR 430, Subpart B, Appendix F	Uniform Test Method for Measuring the Energy Consumption of Room Air Conditioners
CSA C358	Energy Consumption Test Methods for Household Electric Ranges
BTS-2000*	Method To Determine Efficiency Of Commercial Space Heating Boilers
CGA P.2*	Testing Method for Measuring Annual Fuel Utilization Efficiencies of Residential Furnaces and Boilers
IBR 009	Testing and Rating Standard for Finned Tube (Commercial) Radiation
IBR 008	Testing and Rating Standard for Baseboard Radiation

**(ENERGY STAR Program Requirements Product Specification for Commercial Water Heaters Version 2.0)**

10 CFR Part 431.106	Uniform Test Method For The Measurement Of Energy Efficiency Of Commercial Water Heaters And Hot Water Supply Boilers (Other Than Commercial Heat Pump Water Heaters)
10 CFR 431, Sub Part G*	Commercial Water Heaters, Hot Water Supply Boilers and Unfired Hot Water Storage Tanks
SASO 2884	Water Heaters Energy Performance Requirements and Labeling
CSA C191	Performance of Electric Storage Tank Water Heaters Except for: Clause 3.10 - Cathodic Protection

**(EPA ENERGY STAR Program Requirements Product Specification for Boilers Version 3.0 and for Furnaces Partner Commitments Version 4.1)**

ANSI/ASHRAE 193-2010	Method of Test for Determining the Airtightness of HVAC Equipment
10 CFR 430, Subpart B, Appendix N*	Uniform Test Method for Measuring the Energy Consumption of Furnaces and Boilers



ANSI/ASHRAE 124	Methods of Testing for Rating Combination Space-Heating and Water-Heating Appliances
10 CFR 431, Subpart E, Appendix A	Uniform Test Method for the Measurement of Thermal Efficiency and Combustion Efficiency of Commercial Packaged Boilers
ANSI/AHRI 1500	Performance Rating of Commercial Space Heating Boilers

**(EPA ENERGY STAR Program Requirements Product Specification for Residential Water Heaters Version 3.2)**

10 CFR 431, Subpart G*	Commercial Water Heaters, Hot Water Supply Boilers and Unfired Hot Water Storage Tanks
10 CFR 430, Subpart B, Appendix E	Uniform Test Method for Measuring the Energy Consumption of Water Heaters
ANSI/ASHRAE 118.2	Methods of Testing for Rating Combination Space-Heating and Water-Heating Appliances Only for: Section 11.2

**Lighting and Fixtures**

CSA C22.2 No. 12	Portable Luminaires
CSA C22.2 No. 141-02	Unit Equipment for Emergency Lighting
CSA C22.2 No. 250	Luminaires
CSA C22.2 No. 43	Lampholders
CSA C22.2 No. 74	Lampholders and Control Equipment for Use with Electric Discharge Lamps
CSA C22.2 No. 9	Electric Lighting Fixtures
CSA C22.2No. 89	Swimming-Pool Luminaires, Submersible Luminaries and Accessories
CSA C653	Performance Standard for Roadway Lighting Luminaires
CSA C654	Fluorescent Lamp Ballasts Efficacy Measurements
CSA C861	Performance of Compact Fluorescent Lamps and Ballasted Adapters
CSA C862	Performance of Incandescent PAR Lamps
ULC/ORD-C924	Photoluminescent and Self-luminous Exit Signs

**Miscellaneous Electrical Appliances:**

CSA C22.2 No. 1	Audio, Video and Similar Electronic Equipment
CSA C22.2 No. 10	Electric Floor Surfacing and Cleaning Machines
CSA C22.2 No. 103	Electric Fence Controllers General Instruction 1-2
CSA C22.2 No. 107.2	Battery Chargers
CSA C22.2 No. 108	Liquid Pumps
CSA C22.2 No. 118	Construction and Test of Picture Machines and Appliances
CSA C22.2 No. 122	Hand-Held Electrically Heated Tools
CSA C22.2 No. 128	Vending Machines
CSA C22.2 No. 130	Requirements for Electrical Resistance Cables and Heating Device Sets
CSA C22.2 No. 164	Electric Sauna Heating Equipment
CSA C22.2 No. 187	Electrostatic Air Cleaners

CSA C22.2 No. 189	High Voltage Insect Killers
CSA C22.2 No. 205	Signal Equipment
CSA C22.2 No. 207	Portable and Stationary Electric Signs and Displays
CSA C22.2 No. 221	Electric Heated Hobby & Education Type Kilns
CSA C22.2 No. 36	Hairdressing Equipment Only for: hand-held hair dryers
CSA C22.2 No. 81	Electric Irons
CSA C22.2 No. 99	Construction and Test of Domestic Electric Ironing Machines
CSA E491	Safety Requirements for Electronic Flash Apparatus for Photographic Purposes
CSA E60335-2-16	Safety of Household and Similar Elec. Appliances Part 2 for Food Waste Disposers
CSA E60335-2-27	Safety of Household and Similar Electrical Appliances Part 2 Part. Requirement for Ultraviolet and Infrared Radiation Skin Treatment Appliances
CSA E60335-2-45	Safety of Household and Similar Elec. Appliances Part 2 for Portable Electric Heating Tools
CSA E60335-2-55	Household and similar electrical appliances Safety Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds
CSA-E60335-2-67	Safety of household and similar electrical appliances – Part 2: Particular for floor treatment and floor cleaning machines, for industrial and commercial use
CSA C22.2 No. 109	Commercial Cooking Appliances
CSA C22.2 No. 110	Construction and Test of Electric Storage-Tank Water Heaters
CSA C22.2 No. 1335.2.9	Portable Electric Motor Operated and Heating Appliances: - Part. Req. for Portable Electric Cooking Appliances
CSA C22.2 No. 61	Household Cooking Ranges Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 64	Household Cooking and Liquid-Heating Appliances
CSA E335-2-15	Safety of Household and Similar Electrical Appliances Part 2 Req. for Appliances for Heating Liquids
CSA E335-2-21	Safety of Household and Similar Electric Appliances Part 2 Part. Req. for Storage Water Heaters
CSA E60335-2-15	Household and Similar Electrical Appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
CSA E60335-2-21	Safety of Household and Similar Electrical Appliances - Part 2: Particular Requirements for Storage Water Heaters
CSA E60335-2-9	Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances

#### Motor Operated Electrical Appliances

CSA C22.2 No. 1335.1	Portable Electrical Motor-Operated and Heating Appliances Except for: Clause 24 - Components
CSA C22.2 No. 1335.2.14	Portable Electric Motor Operated Heating Appliances Part. Req. Kitchen Appliances

CSA C22.2 No. 195	Motor Operated Food Processing Appliances
CSA C22.2 No. 243	Vacuum Cleaners and Blower Cleaners Except for: Clause 7 - Current-Carrying Hoses
CSA C22.2 No. 247	Operators and Systems of Doors, Gates, Draperies, and Louvres
CSA C22.2 No. 68	Motor Operated Appliances (Household and Commercial)
CSA C22.2 No. 71.1	Portable Electric Tools
CSA C22.2 No. 71.2	Electric Bench Tools
CSA C22.2 No. 73	Construction and Test of Electrically Equipped Machine Tools
CSA C22.2 No. 745	Portable Electric Tools
CSA C361	Test Method for Measuring Energy Consumption and Drum Volume of Electrically Heated Household Tumble-Type Clothes Dryers

### **Washing Equipment**

CSA C22.2 No. 167	Household Dishwashers
CSA C22.2 No. 168	Commercial Dishwashing Machines
CSA C22.2 No. 169	Electric Clothes Washing Machines and Extractors
CSA C22.2 No. 53	Electric Washing Machines
CSA C360	Test Method for Measuring Energy Consumption and Capacity of Automatic Household Clothes Washers
CSA C373	Dishwashers

### **(EPA ENERGY STAR Program Requirements Product Specification for Clothes Washers Version 8.0)**

10 CFR 430, Subpart B, Appendix J2	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers
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### **(EPA ENERGY STAR Program Requirements Product Specification for Residential Dishwashers Version 6.0)**

10 CFR 430, Subpart B, Appendix C1	Uniform Test Method for Measuring the Energy Consumption of Dishwashers
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### **Equipment, Miscellaneous:**

#### **Enclosures**

CSA C22.2 No. 18	Outlet Boxes, Conduit Boxes, and Fittings
CSA C22.2 No. 60529	Degrees of Protection Provided by Enclosures (IP Code)
CSA C22.2 No. 85	Rigid PVC Boxes and Fittings
CSA C22.2 No. 94	Special Purpose Enclosures

#### **Grounding**

CSA C22.2 No. 0.4	Bonding & Grounding of Electrical Equipment
CSA C22.2 No. 41	Grounding & Bonding Equipment

#### **Hazardous Location Equipment**

CAN/CSA C22.2 No. 60079-0	Electrical apparatus for explosive gas atmospheres- Part 0: General requirements
CAN/CSA C22.2 No. 60079-1	Electrical apparatus for explosive gas atmospheres- Part 1: Flameproof enclosures "d" - first edition
CAN/CSA C22.2 No. 60079-11	Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i"
CAN/CSA C22.2 No. 60079-15	Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"
CAN/CSA C22.2 No. 60079-18	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"
CAN/CSA C22.2 No. 60079-2	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
CAN/CSA C22.2 No. 60079-25	Explosive atmospheres - Part 25: Intrinsically safe systems
CAN/CSA C22.2 No. 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
CAN/CSA C22.2 No. 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
CAN/CSA C22.2 No. 60079-30-1	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
CAN/CSA C22.2 No. 60079-31	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
CAN/CSA C22.2 No. 60079-5	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
CAN/CSA C22.2 No. 60079-6	Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"
CAN/CSA C22.2 No. 60079-7	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
CSA C22.2 No. 137	Electric Luminaires for Use in Hazardous Locations
CSA C22.2 No. 138	Heat Tracing Cable and Cable Sets for Use in Hazardous Locations
CSA C22.2 No. 145	Motors and Generators for Use in Hazardous Locations
CSA C22.2 No. 157	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA C22.2 No. 213	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CSA C22.2 No. 22	Electrical Equipment for Flammable and Combustible Fuel Dispensers
CSA C22.2 No. 25	Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA C22.2 No. 30	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
IEC 60079-0	Electrical apparatus for explosive gas atmospheres- Part 0: General requirements
IEC 60079-1	Electrical apparatus for explosive gas atmospheres- Part 1: Flameproof enclosures "d"

IEC 60079-11	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-13	Explosive atmospheres -Part 13: Equipment protection by pressurized room 'p'
IEC 60079-15	Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"
IEC 60079-18	Explosive atmospheres - Part 18: Equipment protection by encapsulation "m"
IEC 60079-2	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
IEC 60079-25	Explosive atmospheres - Part 25: Intrinsically safe systems
IEC 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-27	Explosive atmospheres - Part 27: Fieldbus intrinsically safe concept (FISCO)
IEC 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-30-1	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
IEC 60079-31	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-5	Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
IEC 60079-6	Explosive atmospheres - Part 6: Equipment protection by liquid immersion "o"
IEC 60079-7	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

**Information Processing and Business Equipment:**

CSA C22.2 No. 220	Information Processing and Business Equipment
CSA C22.2 No.60950-1	Safety of Information Technology Equipment, Including Electrical Business Equipment Except for: Clause 4.3.12 - Construction Details Clause 6 - Connection to Telecommunication Networks Annex A3 Flaming Oil Test Annex AA Mandrel test

**Motors, Generators, and Machines:**

CSA C22.2 No. 77	Motors with Inherent Overheating Protection
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**Scientific Instruments (for biological, chemical electrical, mechanical optical and physical examination):**

**Laboratory Equipment**

CSA C22.2 No. 231	CSA Safety Requirements for Electrical and Electronic Measuring and Test Equipment
CSA C22.2 No. 61010-1*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements Except for: Clause 12.2.2 - Accelerated electrons Clause 12.6 - Laser sources Clause 14 - Components

**ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

**(Protective Clothing)**

ASTM F1670	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood
ASTM F1671	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System
ASTM F1790	Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing
ASTM F739	Standard Test Method for Permeation of Liquids and Gases through Protective Clothing Materials under Conditions of Continuous Contact
ASTM F903	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Liquids.
ANSI 105	Glove Hand Protection
ANSI 138	Glove Impact Protection

**Personal Protection**

AS 4381	Single-use face masks for use in health care
ANSI Z358.1 (ISEA Z358.1)	Emergency Eyewash and Shower Equipment
ANSI Z89.1	Industrial Protection (Headgear)
ANSI/ASSE Z359.1	Safety Requirements for Personal Fall Arrest Systems, Subsequent and Components
ANSI/ASSE Z359.12	Connecting Components for Personal Fall Arrest Systems
ANSI/ASSE Z359.13	Personal Energy Absorbers and Energy Absorbing Lanyards
ANSI/ASSE Z359.14	Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems Except for: 5b and 5c

ANSI/ASSE Z359.4	Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components Only for: Section 4.3.6.1, Static Strength Test, hoist line Section 4.3.6.2, Static Strength Test, hoist Section 4.3.6.3, Function Test, Force to raise/lower Section 4.3.6.4, Function Test, Slippage Section 4.3.6.5, Function Test, Brake Section 4.3.6.9, Function Test, Secondary Brake
ANSI/ASSE Z87.1 (ISEA Z87.1)	Occupational and Educational Personal Eye and Face Protection Devices
ASTM F1045	Performance Specification for Ice Hockey Helmets
ASTM F1163	Headgear Used in Horse Sports and Horseback Riding
ASTM F1446	Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Headgear
ASTM F1447	Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating
ASTM F1492	Standard Specification for Protective Headgear Used in Skateboarding and Freestyle Roller Skating
ASTM F1587	Standard Specification for Head and Face Protective Equipment for Ice Hockey Goaltenders
ASTM F513	Safety Specifications for Eye and Face Protective Equipment for Hockey Players
ASTM F887-12	Arc-Resistant Fall Protection Products Only for: section 23.7 for harnesses and shock absorbing lanyards
ASTM F2100	Standard Specification for Performance of Materials Used in Medical Face Masks
ASTM F2101	Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus
ASTM F1862	Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)
16 CFR Part 1610	Standard for the flammability of textiles
ISO 16603	Clothing for protection against contact with blood and body fluids — Determination of the resistance of protective clothing materials to penetration by blood and body fluids — Test method using synthetic blood
ISO 16604	Clothing for protection against contact with blood and body fluids — Determination of resistance of protective clothing materials to penetration by blood-borne pathogens — Test method using Phi-X 174 bacteriophage
42 CFR Part 84	Respiratory Protective Devices
TEB-STP-0003	Determination of Exhalation Resistance



TEB-STP-0004	Determination of Exhalation Valve Leakage
TEB-STP-0005	Determination of Qualitative Isoamyl Acetate Facepiece Fit
TEB-STP-0007	Determination of Inhalation Resistance
TEB-STP-0051	Filter Efficiency determination P100
TEB-STP-0056	Filter Efficiency determination R95
TEB-STP-0057	Filter Efficiency determination N100
TEB-STP-0058	Filter Efficiency determination N99
TEB-STP-0059	Filter Efficiency determination N95
Mil 36954C	Mask, Surgical, Disposable
EN 14683	Medical face masks - Requirements and test methods
ASTM F3502-21	Standard Specification for Barrier Face Coverings Only for: <ul style="list-style-type: none"> <li>• Sections 4.1.1 and 8.1 Sub-micron Particulate Filtration Efficiency, and</li> <li>• Sections 4.1.2 and 8.2 Airflow Resistance</li> </ul>
PB 70	Liquid Barrier Performance and Classification of protective apparel and drapes intended for use in health care facilities
AATCC 127	Water Resistance: Hydrostatic Pressure Test
AATCC 42	Test method for water resistance: Impact Penetration
ASTM D5034	Standard test method for Breaking Strength and elongation of textile fabrics (Grab Test)
ASTM D1683	Standard Test Method for failure in sewn seams of Woven fabrics
ASTM F2407	Standard Specification for surgical gowns intended for use in healthcare facilities
ASTM D5587	Standard Test Method for Tearing Strength of fabrics by trapezoidal method
ASTM D5733	Standard Test Method for Tearing Strength of non-woven fabrics by trapezoidal method
ASTM D751	Standard Test Method for Burst Strength
ASTM F3352	Standard Specification for Isolation Gowns intended for use in healthcare facilities
CPSC 16 CFR Part 1203	Safety Standard for Bicycle Helmets Final Rule
CSA Z259.10	Full body harnesses
CSA Z259.11	Energy absorbers and lanyards
CSA Z259.12	Connecting Components for Personal Fall Arrest Systems (PFAS)
CSA Z259.15	Anchorage Connectors
CSA Z259.2.1	Fall Arresters, Vertical Lifelines, and Rails
CSA Z259.2.2	Self-Retracting Devices for Personal Fall-Arrest Systems
CSA Z94.1	Industrial Protective Headwear
CSA Z94.3	Industrial Eye and Face Protectors
NIJ 0104.2	Police Riot Head Protection (Helmets, Face Shields)

**Personal Protection (NFPA Methods except for: Total Heat Loss, Wet Flex, Adhesion after Wet Flex and Flex at Low Temperatures)**

NFPA 1851	Standard on Selection, Care, and Maintenance of Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting Only for: Section 11
NFPA 1951	Standard on Protective Ensemble for USAR Operations Except for: Warfare Agents Permeation, ASTM F1868, ASTM F489
NFPA 1971	Protective Ensemble for Structural Fire Fighting (Footwear, Gloves, Clothing, Helmets)
NFPA 1975	Station/Work Uniforms for Fire Fighters
NFPA 1977	Protective Clothing and Equipment for Wildland Fire Fighting (Helmets, Clothing, Footwear)
NFPA 1981	Open-Circuit Self Contained Breathing Apparatus for the Fire Service (SCBA)
NFPA 1982	Personal Alert Safety Systems (PASS) for Fire Fighters
NFPA 1983	Fire Service Life Safety Rope and System Components
NFPA 1991	Vapor-Protective Suits for Hazardous Chemical Emergencies Except for: Slip test, Warfare agent permeation
NFPA 1992	Liquid Splash Protective Suits for Hazardous Chemical Emergencies Except for: Slip test, Warfare agent permeation
NFPA 1994	Standard of Protective Ensemble for Chemical/Biological Terrorism Incidents Except for: Slip test, Warfare agent permeation
NFPA 1999	Protective Clothing for Emergency Medical Operations Except for: Slip test, Warfare agent permeation
NFPA 2112	Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire Except for: Section 8.5

**(Thermal Imagers)**

NFPA 1801	Standard on Thermal Imagers for the Fire Service Except for: EMC
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**NON-METALLIC MINERALS AND PRODUCTS**

**Glass and Glass Products:**

CGSB 12.1	Tempered or Laminated Safety Glass
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Number of Scope Listings: 334

**Notes:**

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

\* These test methods can be performed on-site as per RG-On-Site-Testing.

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