

CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

CertifiGroup, Inc. 901 Sheldon Dr. Cary, NC 27513

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1545
Certificate Number

ANAB Approval

Certificate Valid: 6/8/2017-05/12/2019 Version No. 004 Issued: 6/8/2017





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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TESTING

Valid to: May 12, 2019 Certificate Number: AT-1545

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Ingress Protection Tests (IP1X-6X) (IPX1-X8)	IEC 60529	Enclosures, Electrical Equipment	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank
Ingress Protection Tests (IP2X-6X) (IPX1-X8)	IEC 60598-1	Luminaries	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank
Ingress Protection Tests (IP1X-6X) (IPX1-X8) Sec. 33.6 Rain Test	IEC 60034-5 UL 1004-1	Rotating Electrical Machine	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank, Rain Test Apparatus
Ingress Protection Tests (IP1X-6X) (IPX1-X8)	EN 60204-1	Electrical Equipment of Machines	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank
Ingress Protection Tests (IP1X-6X) (IPX1-X8)	IEC 60079	Explosive Atmospheres	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank
Ingress Protection Tests (IP1X-6X) (IPX1-X8)	EN 60335-1 UL 60335-1	Household and similar Electrical Appliances	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Ingress Protection Tests (IP1X-6X) (IPX1-X8)	IEC 60601-1 UL 60601-1	Medical Equipment	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank
Ingress Protection Tests (IP1X-6X) (IPX1-X8)	IEC 61010-1 UL 61010-1	Laboratory Equipment	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank
Sec. 12.1.3 Impact Test Sec. 12.1.4 Drop Test Sec. 12.1.5 Stress Relief	IEC 60065	Audio, video and similar electronic apparatus	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank, 50mm sphere, Oven, Impact Hammer
IP1X-4X, IPX1-X4, IPX4K, IPX5-6, IPX6K, IPX7-X8, IPX9K	DIN 40050-9	Enclosures, Road Vehicle Equipment	Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Immersion Tank, Dust Chamber
IP5X, IPX4 - Section 9.1 IP5X, IP6X - Section 9.3(Dust) Sec. 10.2 (Impact Test) Sec. 8.5, Annex D (Gasket Tests)	IEC 60950-22	Outdoor Use Equipment	Dust Chamber, Spray Tester, Oscillating Spray Tester, Thermocouple Reader, Tensile Strength Tester, Temperature and Humidity Recorder 50 mm sphere, 18kg Weight, 1.35kg Impact Weight, Calipers
Outdoor Use Equipment Sec. 1.1.2, Annex T Ingress Protection Tests (IP1X-6X) (IPX1-X8) Sec. 4.2.5 Impact Test Sec. 4.2.6 Drop Test Sec. 4.2.7 Stress Relief Test	IEC 60950-1 UL 60950-1	Information Technology Equipment	50 mm sphere, Oven, Mechanical Probes, Drip Box, Oscillating Spray Tester, Spray Tester, Jet Nozzle, Dust Chamber, Immersion Tank





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Type 1, 2, 3, 3R, 3X, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, 13 Sec 5.2 (Protection against Hazardous Parts) Sec. 5.3 (Dripping and Light Splashing) Sec 5.4 (Rain) Sec. 5.5.2.1.3 (Atomized Water-Method A) Sec. 5.5.2.2.3 (Atomized Water-Method B) Sec. 5.5.1.3 (Hose Method) Sec. 5.6 (External Icing) Sec. 5.6 (External Icing) Sec. 5.7 (Hosedown) Sec. 5.8 (Indoor Corrosion Protection) Sec. 5.9 (Outdoor Corrosion Protection) Sec. 5.10 (Corrosion Protection) Sec. 5.11 (Temporary Submersion) Sec. 5.12 (Prolonged Submersion) Sec. 5.14 (Gasket Tests)	NEMA 250	Enclosures, Electrical Equipment	Mechanical Probes, Drip Box, Rain Test Apparatus, Immersion Tank, Jet Nozzle, Atomized Water Nozzle, Salt Fog Chamber, Tensile Strength Tester, Thermocouple Reader
Type 1, 2, 3, 3R, 3S, 4, 4X, 5, 6, 6P, 12, 12K, 13 Sec 8.2 (Drip Test) Sec. 8.3 (Rain Test) Sec. 8.4.2.1.2 (Atomized Water-Method A) Sec 8.4.2.2.2 (Atomized Water-Method B) Sec. 8.4.1.2(Hose Method) Sec. 8.5 (External Icing) Sec. 8.6 (Hosedown) Sec. 8.7 (Indoor Corrosion) Sec. 8.8 (Outdoor Corrosion) Sec. 8.9 (Additional Corrosion) Sec. 8.10 (Submersion Test) 8.11.2 (External Pressurization Method) Sec. 8.13 (Gasket Tests) Sec. 8.14 (Rod Entry)	UL 50E	Enclosures, Electrical Equipment	Drip Box, Rain Test Apparatus, Immersion Tank, Jet Nozzle, Atomized Water Nozzle, Salt Fog Chamber, Immersion Tank, Tensile Strength Tester, Thermocouple Reader, 18kg Weight, 1.35kg Impact Weight, Calipers
Sec 26.4.3 Drop Test	UL/CSA/EN/IEC 60079-0	Enclosures, Electrical Equipment	Tape Measure Concrete





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Wet Locations Sec. 16.5.2 Rain Sec. 16.5.4 Immersion	UL 1598	Luminaries	Rain Test Apparatus, Immersion Tank
Outdoor Use	UL 73	Motor Operated Appliances	Rain Test Apparatus
Sec. 49 Water Spray Test	UL 1278	Movable and Wall or Ceiling Hung Electric Room Heaters	Rain Test Apparatus
Sec. 38 Water Spray Test	UL 507	Electric Fans	Rain Test Apparatus
(-100 to 200) °C (0 to 99) % RH	Multiple Standards or Customer Request	Temperature and Humidity	Temperature and Humidity Recorder, Environmental Chambers
Sec. 509.4, 512.4 (F) Sec. 509.5, 512.5 (G)	MIL-STD-810 F MIL-STD-810 G	Department of Defense Test Standard for Environmental Engineering Considerations and Laboratory Test	Salt Fog Chamber, Immersion Tank
Salt Spray (Fog)	ASTM B117	Standard Practice for Operating Salt Spray (Fog) Apparatus	Salt Fog Chamber
Sec. 5.1.1.2 High Humidity Sec. 5.1.1.13 High Temp/Thermal Shock	GR-63-CORE	NEBS Requirements: Physical Protection	Environmental Chambers, Oven, Thermocouple Reader
Sec. 3.31.2 Rain Intrusion Sec. 3.31.3 & 3.31.4 Water Intrusion Sec. 3.31.5 Lawn Sprinklers	GR-487-CORE	Generic Requirements for Electronic Equipment Cabinets	Rain Test Apparatus, Immersion Tank,
Sec. 4.3 Salt Spray Atmosphere	SAE J1455	Surface Vehicle Recommended Practice	Salt Fog Chamber,
Sec. 26.4.2 Explosive Atmospheres	UL/CSA/EN/IEC 60079-0	Resistance to Impact Test	25mm/1kg sphere Hardened steel base
Small Parts (Choke Hazard)	ASTM F963-11; 4.6 16 CFR 1501 SOR 2011-17; 7, 30, S1 M00.1(4) ISO 8124-1; 4.4,5.2 EN71-1; 8.2	Toys	Choke Hazard Tester
Sharp Edges	ASTM F963-11; 4.7 16 CFR 1500.49 M00.2(4) ISO 8124-1; 4.6,5.8 EN71-1; 4.7,8.11	Toys	Sharp Edge Tester Caliper
Sharp Points	ASTM F963-11; 4.9 16 CFR 1500.49 M00.3(4) ISO 8124-1; 4.7,5.9 EN71-1; 8.12	Toys	Sharp Point Tester SPT-1000 Caliper





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Accessibility	ASTM F963-11; 3.1.2 ISO 8124-1; 5.7 EN71-1; 8.10	Toys	Child Finger Probes Caliper
Drop Test (Impact Test)	ASTM F963-11; 8.7.1 16 CFR 100.51(b) M01.1(5.4) ISO 8124-1; 5.24.2 EN71-1; 4.5,8.5	Toys	Scale Tape Measure Impact Medium
Flexure Test	ASTM F963-11; 8.12 16 CFR 1500.51(d) ISO 8124-1; 4.9,5.24.8 EN71-1; 8.13	Toys	Flexure Tester Force Gauge
Torque test for removal of components	ASTM F963-11; 8.8 16 CFR 1500.51(e) ISO 8124-1; 5.24.5 EN71-1; 8. 3	Toys	Torque Wrench
Tension test for removal of components	ASTM F963-11; 8.9 16 CFR 1500.51(f) M01.1(5.5) ISO 8124-1; 5.24.6 EN71-1; 8.4	Toys	Force Gauge Seam Clamp Feeler Gauge Attachment
Tension test for seams	ASTM F963-11; 4.27,8.9.1 ISO 8124-1; 5.24.6.2 EN71-1; 8.4.2.2	Toys	Force Gauge Seam Clamp Feeler Gauge Attachment
Compression test	ASTM F963-11; 8.10 16 CFR 1500.51(g) ISO 8124-1; 5.24.7 EN71-1; 8.8	Toys	Force Gauge Rigid metal disc attachment
Bite Test	16 CFR 1500.51(c)	Toys	Tape Measure Force Gauge Bite Test Clamp
Leakage of liquid-filled toys	ISO 8124-1; 4.24,5.19 EN71-1; 5.5,8.15	Toys	Force Gauge Puncture Tester Stopwatch Cobalt Chloride Paper Temp/Humidity Chamber
Tire Removal and snap in axle tension/compression Test	ASTM F963-11; 8.11	Toys	Wire Hook Rigid Plate Weights Sharp Point Tester Sharp Edge Tester
Toys with Locking Mechanisms and Hinges	ASTM F963-11; 4.13, 8.25 SOR 2011/17; 14	Toys	Force Gauge





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Security of attached eyes and noses to Dolls, Plush Toys, and Soft Toys	SOR 2011/17; 31, S4 M01.2	Toys	Weights Claw Hook Discs Stopwatch Caliper Test Stand
Simulated Protective Devices (Masks, Helmets, Etc)	ASTM F963-11; 4.19.1, 8.7.4 ISO 8124-1; 4.14,5.14, 5.24.6.4 EN71-1; 8.4.2.3	Toys	Force Gauge Steel Ball Tape Measure Multiple Equipment Items
Pacifiers, Rattles, Teethers, Squeeze Toys (Geometric Shape of Certain Toys)	ASTM F963-11; 4.20,4.22,4.23,4.24 16 CFR 1510,1511 SOR 2011-17; 40, S8 ISO 8124-1; 4.5,5.3 EN71-1; 5.8,8.16	Toys	Rattle Test Fixture Supplemental Test Fixture Caliper
Preschool Play Figures	ASTM F963-11; 4.32.3 ISO 8124-1; 4.5.4,5.6 EN71-1; 5.11,8.33	Toys	Rattle Test Fixture Supplemental Test Fixture Caliper
Small Balls and Suction Cups	ASTM F963-11; 4.34 16 CFR1500.18(a)(17) ISO 8124-1; 4.5.2,5.4 EN71-1; 5.10,5.13,8.32	Toys	Small Ball Test Fixture
PomPoms	ASTM F963-11; 4.35, 8.16 ISO 8124-1; 4.5.3,5.5	Toys	Torque Wrench Seam Clamp Small Ball Test Fixture Force Gauge
Hemispheric-Shaped toys	ASTM F963-11; 4.36 ISO 8124-1; 4.5.5 EN71-1; 5.12	Toys	Caliper Optical Comparator
Toys with nearly Spherical Ends	ASTM F963-11; 4.32	Toys	Supplemental Fixture Scale Tape Measure/ Caliper
Jaw Entrapment in handles and steering wheels	ASTM F963-11; 4.39	Toys	Jaw Entrapment Fixtures
Tests for toys with shaft-like handles	SOR 2011/17; 37	Toys	Tape Measure Force Gauge
Springs	ASTM F963-11; 4.18.6 ISO 8124-1; 4.14 EN71-1; 4.10.4	Toys	Calipers Force Gauge
Spring Wound Driving Mechanisms	SOR 2011/17; 15(d)	Toys	Ruler/Caliper Child Test Finger
Perimeter of Cords and Chains	EN71-1; 8.36	Toys	Test Blocks Force Gauge Head Probe





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Tests for Loops, Cords, and Elastics	ASTM F963-11; 4.14, 8.22 SOR 2011/17; 41 ISO 8124-1; 4.11,5.11 EN71-1; 4.13,5.4,8.19,8.20	Toys	Force Gauge Caliper Weights Tape Measure Head Probe Hook Test Fixture
Breakaway feature separation test	EN71-1; 8.38	Toys	Force Gauge
Self-retracting cords	EN71-1; 8.39	Toys	1 kg weight Tape Measure
Length of cords, chains, and electrical cables	EN71-1; 8.40	Toys	Tape Measure
Toys comprising monofilament fibers	EN71-1; 5.9	Toys	Tape Measure
Plastic Film/Sheet Thickness	ASTM F963-11; 4.12, 8.21 SOR 2011/17; 4 M03(4) ISO 8124-1; 4.10,5.10 EN71-1; 4.3,5.3,8.25	Toys	Tape Measure Micrometer
Toys with Accessible Wires or Rods	ASTM F963-11; 4.10	Toys	Angle Meter Tape Measure Caliper Force Gauge
Toys Containing Nails and Fasteners	ASTM F963-11; 4.11 SOR 2011/17; 28	Toys	Multiple Equipment Items
Toy Closures and Ventilation	ASTM F963-11; 4.16	Toys	Caliper Force Gauge
Toy Clearance	ASTM F963-11; 4.18	Toys	Accessibility Probes Calipers Force Gauge
Tip Over Test	ASTM F963-11; 8.7.2 16 CFR 1500.51(b)(4) ISO 8124-1; 5.24,3	Toys	Scale Impact Medium
Stability of Stationary Floor Toys	ASTM F963-11: 4.15.4	Toys	Angle Meter Scale Tape Measure
Tumble Test for Wheeled Toys	ASTM F963-11; 8.7.3	Toys	Scale Wooden Steps
Ride on Stability Test	ASTM F963-11; 8.15	Toys	Angle Meter Weights Tape Measure
Overload of ride on toy seats	ASTM F963-11; 8.26	Toys	Weights Tape Measure





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Dynamic Strength Test for wheeled ride on toys	ASTM F963-11; 8.20	Toys	Weights Stopwatch Tape Measure
Wheels, Tires, and Axles	ASTM F963-11; 4.17	Toys	Sharp Edge Tester Sharp Point Tester Choke Hazard Tester
Toys Intended to be Attached to a Crib or Playpen	ASTM F963-11; 4.26	Toys	Inspection
Projections	ASTM F963-11; 4.8	Toys	Inspection
Use and Abuse Testing	ASTM F963-11; 8.5,8.6	Toys	Washer/Dryer Multiple Equipment Items
Creepage & Clearance Distances	US and International Standards	Electrical Products	Calipers, Tape Measure
Strain Relief Test	US and International Standards	Electrical Products	Force Gauge, Tape Measure, Stop Watch
Stability Test	US and International Standards	Electrical and Mechanical Products	Angle Meter, Tape Measure
Impact Test	US and International Standards	Electrical and Mechanical Products	Mechanical Probes, Impact Ball, Impact Hammer, 50 mm sphere, Tape Measure, Force Gauge
Enclosure Push Test	US and International Standards	Electrical and Mechanical Products	Mechanical Probes, Force Gauge
Pull Test	US and International Standards	Electrical and Mechanical Products	Force Gauge
Permanence of Marking	US and International Standards	Electrical and Mechanical Products	Stop Watch
Weight Loading Test	US and International Standards	Electrical and Mechanical Products	Force Gauge, Stop Watch, Tape Measure
Mold Stress Test	US and International Standards	Plastics	Lab Oven
Ball Pressure Test	US and International Standards	Plastics	Lab Oven, Ball Pressure Tester, Ball Pressure Test Stand, Thermocouple, Thermocouple Meter





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Flame Tests 3/4 Inch, 20 mm, 5 Inch, 127 mm, Horizontal Burn: HB Vertical Burn: V-0, V-1, V-2, 5VA, 5VB, 50W, 500W	US and International Standards	Plastics	Flame Hood, Gas Supplies, Gas Flow Meter, Manometer/Pressure Gauge, Bunsen Burners, Needle Flame Burner, Flame Calibration Blocks, Flame Calibration Gauges, Burner Test Stand, Burner Wing Tips, Burner Angle Blocks, Wire Gauze & Screens, Stop Watch
Glow Wire Test	US and International Standards	Plastics	Glow Wire Tester
Hot Wire Ignition Test	US and International Standards	Plastics	Hot Wire Ignition Tester Hot Wire Ignition Tester Power Supply
Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test.	IEC 60950-1 (2005); IEC60950-1:2005+A1:2009; EN 60950-1 (2006); EN60950-1:2006 + A11:2009; EN60950-1:2006 + A1:2010; AS/NZS 60950-1 (2003); ANSI/UL 60950-1 (2007); CAN/CSA C22.2 60950-1-07 (2007)	ITE	Digital Multimeter, Dielectric Tester, Leakage Current Meter, Ground Continuity Tester force gauge, power meter, Oscilloscope, ammeter temperature / humidity meter, pressure and vacuum gauge, scale, data logger, oven creepage and clearance tools, stopwatch, measuring tape
Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test	IEC 61010-1 (2001); IEC61010- 1:2010 EN 61010-1 (2001); EN61010- 1:2010 UL61010-1 (2008) CAN/CSAC22.2 No.61010-1 (2004)	Measurement Control and Lab Use	Digital Multimeter, Dielectric Tester, Leakage Current Meter, Ground Continuity Tester, force gauge, power meter, Oscilloscope, ammeter temperature / humidity meter, pressure and vacuum gauge, scale, data logger, oven creepage and clearance tools, stopwatch, measuring tape





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Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test	IEC 60601-1:1988+ A1:1991 +	Medical Equipment	Digital Multimeter, Dielectric Tester, Leakage Current Meter, Ground Continuity Tester, force gauge, power meter, Oscilloscope, ammeter temperature / humidity meter, pressure and vacuum gauge, scale, data logger, oven creepage and clearance tools, stopwatch, measuring tape
Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test	IEC60204-1:2005 +A1:2008 EN60204-1:2006 + A1:2009	Machinery	Digital Multimeter, Dielectric Tester, Insulation Resistance Tester, Ground Continuity Tester, Oscilloscope, Ammeter, Protractor, Force Gauge, Measuring Tape,
Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test Permanence of Marking Weight Loading Test Mold Stress Test, Ball Pressure Test Humidity Conditioning Test	EN60335-1:2002 +A14:2010 IEC60335-1:2001 +A2:2006 UL60335-1 (2006)	Household & Similar Electronics	Digital Multimeter, Dielectric Tester Leakage Current Meter, force gauge, power meter, Oscilloscope, ammeter, temperature / humidity meter, pressure and vacuum gauge, scale,data logger, oven, creepage and clearance tools,stop-watch, measuring tape
Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test	EN60065:2002 +A2:2010 IEC60065:2001 +A2:2010 UL60065 (2004)	Audio, Video and Similar Electronic App.	Digital Multimeter, Dielectric Tester Leakage Current Meter, force gauge, power meter, Oscilloscope, ammeter temperature / humidity meter, pressure and vacuum gauge, scale, data logger, oven creepage and clearance tools, stopwatch, measuring tape





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Electrical, Mechanical, Chemical and Environmental Tests per the selected Standard and in accordance with the Test Plan for the Equipment Under Test	IEC 529, EN60529 Amendment 1: 1999-11 Section 13.2 & Section 14.2	General (Enclosures)	Accessibility Probes, Dust Test Chamber, Drip Box System Oscillating Spray Test System, Handheld Spray Tester, Jet Nozzle Kit, High Flow Rate Water Delivery System with Water Tanks, Immersion Tanks, High Pressure, High Temperature Spray Test System
Thermal Shock	Low Temperature Thermal Shock High Temperature Thermal Shock Cyclic Temperature Thermal Shock	Products	HALT Chamber Thermocouple[JW1]
Temperature and Vibration	HALT-HASS Processes and Implementation	Products	HALT Chamber Thermocouple Accelerometer[JW2]

Electrical

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Input	(Standards)	Electrical Products	Oscilloscope, DMM, Power Analyzer
Leakage Current	(General, North America)	Electrical Products	DMM, Leakage Current Meter
Leakage Current	Harmonized Standards, 60950, 61010, 60335	ITE, Laboratory, Household	DMM, Leakage Current Meter
Leakage Current	Medical 60601-1	Medical Equipment	DMM, Leakage Current Meter
Temperature Rise	Thermocouple Method	Electrical Products	Data Logger, Measuring Tape, DMM
Temperature Rise	Change of Resistance Method	Products	Data Logger, Measuring Tape, DMM. COR Tester

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Electrical

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Dielectric Voltage Withstand	0-4000 VAC	Insulation materials, Electrical products, Circuit Boards	Hi-Pot (Dielectric) Tester, Stop Watch
Dielectric Voltage Withstand	0-5000 VDC	Insulation materials, Electrical products, Circuit Boards	Hi-Pot (Dielectric) Tester, Stop Watch
Grounding Continuity Test	1-500 Amps	Electrical Products	GC Tester, DMM, Clamp-on Meter
Voltage Measurements	AC & DC 0-600V	Electrical Products	DMM
Current Measurements	0-400A	Electrical Products	Ammeter
Insulation Resistance Test	0->2ΚΜΩ	Insulation and Electrical Products	IR Meter
Capacitor Discharge Test	Mains Voltage 0-300VAC Decay Voltage 0-425VDC	Electrical Products	Oscilloscope
Abnormal Operation	Component Fault, Locked Rotor, Short Circuit, Blocked Vents, Overload Current	Electrical Products	Data Logger, Measuring Tape, DMM, Power Analyzer, Hi-Pot (Dielectric) Tester, Tissue Paper, Cheese Cloth
Transformer Fault Testing	Short Circuit Test Overload Test	Transformers and Electrical Products	DMM

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. AT-1545.



