



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SGS NORTH AMERICA, INC.
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THERMAL

Valid To: January 31, 2022

Certificate Number: 2947.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following flammability tests:

<u>Test Method(s):</u>	<u>Test Description(s):</u>
Mattress and Mattress Components:	
16 CFR Part 1632 ¹	Standard for the Flammability of Mattresses and Mattress Pads
16 CFR Part 1633 ¹	Standard for the Flammability (Open Flame) of Mattress Sets
16 CFR Part 1632.6	Ticking Substitution Procedure
CA TB 129	Fire Test for Mattresses for Use in Public Buildings
CA TB 121	Flammability Test Procedure for Mattresses for Use in High Risk Occupancies
CAN/CGSB-4.2, No.27.7	Combustion Resistance of Mattresses – Cigarette Test
BFD IX-11	Boston Mattress Fire Test
NFPA 267	Standard Method of Test for Fire Characteristics of Mattresses and Bedding Assemblies Exposed to Flaming Ignition Source
ASTM E1590	Standard Test Method for Fire Testing of Mattresses
Upholstery:	
California Technical Bulletin 117:2013	Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture
Section 1	Cover Fabric Test
Section 2	Barrier Materials Test
Section 3	Resilient Filling Material Test
Section 4	Decking Material Test
CA TB 133	Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
ASTM E1537	Standard Test Method for Fire Testing of Upholstered Furniture
BS EN 1021-1, -2	Assessment of the Ignitability of Upholstered Furniture
I.S. 254:1983	Flame Resistance Requirements for Upholstery
NFPA 260	Standard Method of Test and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture

<u>Test Method(s):</u>	<u>Test Description(s):</u>
Upholstery (Cont.):	
NFPA 261	Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes
NFPA 266	Standard Method of Test for Fire Characteristics of Upholstered Furniture Exposed to Flaming Ignition Source
BFD IX-10	Boston Regulation of Upholstered Furniture
UFAC	Upholstery Component Classification Test Methods
FED-STD-191, Methods 5903-01, -02	Flame Resistance of Cloth, Vertical
ISO 7176-16	Wheelchairs – Part 16: Resistance to ignition of postural support devices
BS 5852	Ignitability of Upholstered Seating by Smoldering and Flaming Ignition Sources
I.S. 419:2011	Fire Safety Requirements for Components of Furniture
Apparel:	
16 CFR Part 1610 ¹	Standard for the Flammability of Clothing Textiles
16 CFR Part 1611 ¹	Standard for the Flammability of Vinyl Plastic Film
16 CFR Part 1615 ¹	Standard for the Flammability of Children’s Sleepwear: (Sizes 0 through 6X)
16 CFR Part 1616 ¹	Standard for the Flammability of Children’s Sleepwear: (Sizes 7 through 14)
NFPA 702	Standard for the Classification of the Flammability of Wearing Apparel
ASTM D6413	Flame Resistance of Textiles (Vertical Test)
ASTM D1230	Standard Test Method for Flammability of Apparel Textiles
Drapery / Decorative Materials / Tentage / Carpet / Blanket:	
16 CFR Part 1630	Standard for the Surface Flammability of Carpets and Rugs
16 CFR Part 1631	Standard for the Surface Flammability of Small Carpets and Rugs
ASTM D2859	Standard Method for Ignition Characteristics of Finished Textile Floor Covering Materials
NFPA 701-1,2	Standard Methods of Fire Tests for Flame Resistance of Textiles and Films
NFPA 705 ²	Recommended Practice for a Field Flame Test for Textiles and Films
CPAI-84	Flame Resistant Materials Used in Camping Tentage
CA Title 19, Section 1237.1	Flame Resistance, Small Scale Test
BFD IX-1	Classification Fire Test
ASTM D4151	Standard Test Method for Flammability of Blankets
ASTM D6413	Flame Resistance of Textiles (Vertical Test)
CAN/ULC S-109	Flame Tests of Flame Resistant Fabrics and Films
Transportation⁴:	
ASTM E162	Surface Flammability of Materials Using a Radiant Heat Energy Source

<u>Test Method(s):</u>	<u>Test Description(s):</u>
Transportation⁴ (Cont.):	
ASTM E648	Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source
ASTM E662	Specific Optical Density of Smoke Generated by Solid Materials
49 CFR 571.302 (FMVSS 302)	Federal Motor Vehicle Safety Standards – Flammability of Interior Materials
CMVSS 302	Canada Motor Vehicle Safety Standards – Flammability of Interior Material
ISO 5660-1	Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)
ISO 5659-2	Determination of Optical Density by a Single-Chamber Test
ISO 9239-1	Determination of the Burning Behaviour using a Radiant Heat Source
ISO 11925-2	Single-Flame Source Test
ISO 5658-2	Lateral Spread on Building and Transport Products in Vertical Configuration
ISO 4589-2	Determination of Burning Behaviour by Oxygen Index
ISO 1182	Reaction to fire tests for products — Non-combustibility test
National school Transportation Specifications and Procedure	NSTSP Prototype, School Bus Seat
Aerospace:	
AITM 2.0002, FAR 25.853 Appendix F Part 1 (a)1(i) and (ii), BSS 7230 F1, F2, F7	Resistance of Materials when tested according to the 12s or 60s Vertical Bunsen Burner Test
AITM 2.0003, FAR 25.853 Appendix F Part 1 (a)1(iv) and (v), BSS 7230 F3, F4	Resistance of Materials when tested according to the 15s Horizontal Bunsen Burner Test
AITM 2.0004, FAR 25.853 Appendix F Part 1 (a)(2)(iii), BSS 7230 F5	Flammability of Nonmetallic Materials – Small Burner Test, 45°
AITM 2.0005, FAR 25.853 Appendix F Part 1 (a)3, BSS 7230 F6	Flammability of Nonmetallic Materials – Small Burner Test, 60°
AITM 2.0006, FAR 25.853 Appendix F Part V, BSS 7322	Determination of Heat Release and Heat Release Rate of Aircraft Materials
AITM 2.0007, FAR 25.853 Appendix F Part V, BSS 7238	Determination of the Specific Optical Smoke Density of Component Parts or Sub-Assemblies of Aircraft Interiors
AITM 2.0008, FAR 25.853 Appendix F Part V, BSS 7238	Determination of the Optical Smoke Density of Electrical and Non-Electrical Cable
AITM 2.0009, FAR 25.853 Appendix F Part II, BSS 7203	Fire Resistance of Aircraft Seat Cushion Utilizing a High Intensity Open Flame
AITM 2.0010, FAR 25.853 Appendix F Part III, BSS 7323	Fire Resistance of Aircraft Cargo Compartment Lining Materials Utilizing a High Intensity Open Flame
AITM 2.0053, FAR 25.853 Appendix F Part VI, BSS 7365	Determination of Flammability and Flame Propagation of Thermal/Acoustic Insulations Materials – Radiant Panel Test
AITM 3.0005, BSS 7239	Determination of Specific Gas Components of Smoke Generated by Component Parts or Sub-Assemblies of Aircraft Interior

<u>Test Method(s):</u>	<u>Test Description(s):</u>
Building Materials:	
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials
NFPA 265	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls
NFPA 286	Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
UL 1685	Standard for Vertical-Tray-Fire-Propagation and Smoke-Released Test for Electrical and Optical-Fiber Cables
IEEE 383	IEEE Standard for Qualifying Electric Cables and Splices for Nuclear Facilities
Product Development:	
ASTM D1929	Determining Ignition Temperature of Plastics
ASTM D2863	Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index)
ASTM E136	Behavior of Materials in a Vertical Tube Furnace at 750°C
ASTM E1354	Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter
Marine:	
IMO FTP Code Part 1	Non-Combustibility
IMO FTP Code Part 5	Surface Flammability
IMO FTP Code Part 8	Upholstered Furniture
IMO FTP Code Part 10	High Speed Craft
Textiles:	
AATCC8	Colorfastness to Crocking: Crockmeter
ASTM D2261	Tearing Strength of Fabrics by the Tongue (Single Rip) Procedure (Constant-Rate-of-Extension Tensile Testing Machine)
ASTM D3511	Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Brush Pilling Tester
ASTM D3776	Mass Per Unit Area (Weight) of Fabric
ASTM D3939	Snagging Resistance of Fabrics (Mace)
ASTM D4034	Resistance to Yarn Slippage at the Sewn Seam in Woven Upholstery Fabrics
ASTM D4157	Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)
ASTM D5034	Breaking Strength and Elongation of Textile Fabrics (Grab Test)

¹The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.

²Test performed at permanent site, SGS GOVMARK TESTING SERVICES, 96 Allen Boulevard, Farmingdale, NY 11735

³NOTE: This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

⁴NOTE: The tests listed under the Transportation heading include certain Methods specified by US Rail (49 CFR Part 238B, NFPA 130), Docket 90, IMO, and European Rail (EN 45545-2).



Accredited Laboratory

A2LA has accredited

SGS NORTH AMERICA, INC.

Farmingdale, NY

for technical competence in the field of

Thermal Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 28th day of May 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2947.01
Valid to January 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Thermal Scope of Accreditation.