

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Manufacturing Solutions Center a.k.a Hosiery Technology Center A division of Catawba Valley Community College 301 Conover Station SE Conover, NC 28613

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document. The current scope of accreditation can be verified at www.anab.org.

Jason Stine, Vice President

Expiry Date: 01 February 2025 Certificate Number: L2238





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Manufacturing Solutions Center a.k.a. Hosiery Technology Center A division of Catawba Valley Community College

301 Conover Station SE Conover, NC 28613 Kathy Alexander 828 327 7000 ext. 4151

TESTING

Valid to: **February 01, 2025**Certificate Number: **L2238**

Microbiological

Specific Tests and/or Properties Measured	Specificatio <mark>n, Standard,</mark> Method, or Test Technique	It <mark>ems, Ma</mark> terials or Product Tested	Key Equipment or Technology
Assessment of Antibacterial Finishes (See Notes 2 and 3)	AATCC 100	Textiles	Spectrophotometer, Hoods, Incubators, Automatic Enumeration systems (Tempo, Q-counter)
Antibacterial Activity: Parallel Streak Method (See Notes 2 and 3)	AATCC 147	Textiles	Hoods, Incubators
Antimicrobial Activity (See Note 2)	ASTM E2149	Textiles	Spectrophotometer, Hoods, Incubators, Automatic Enumeration systems (Tempo, Q-counter)





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Flammability	16 CFR 1610 ASTM D1230	Clothing Textiles	Flammability Test Chamber
Breaking Strength/ Elongation of Textile Fabrics (Grab Test) (See Note 4)	ASTM D5034	Textiles	CRE Tensile Testing Machine
Tearing Strength of Fabrics - Trapezoid	ASTM D5587	Textiles	CRE Tensile Testing Machine
(See Note 4) Tearing Strength of nonwoven fabrics - Trapezoid	ASTM D5733-99	Textiles	CRE Tensile Testing Machine
(See Note 4) Mass per unit Area (See Note 4)	ASTM D3776	Textiles	Gravimetric
Water Resistance: Impact Penetration (See note 7)	AATCC TM 42 And also, as Referenced in ANSI/AAMI PB70	Textiles	Impact Penetration Type I Tester
Water Resistance: Hydrostatic Pressure Test	AATCC TM 127 And also, as Referenced in ANSI/AAMI PB70	Textiles	Hydrostatic Head Tester
Failure in Sewn Seams of Woven Fabrics (Seam Strength)	ASTM D1683/D1683M – Seam Strength Sections only	Textiles	CRE Tensile Testing Machine
Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood	ASTM F1670/F1670M And also, as Referenced in ANSI/AAMI PB70	Textiles	Penetration Test Apparatus, Penetration Cell





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Resistance of Materials Used in Protective Clothing to Penetration by Liquids	ASTM F903	Textiles	Penetration Test Apparatus, Penetration Cell
Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting – Liquid Penetration Resistance Test	NFPA 1971-17, Section 8.27 only	Textiles	Penetration Test Apparatus, Penetration Cell
General Purpose Office Chairs - Seating Durability Tests – Cyclic	ANSI/BIFMA X5.1, Section 10	Furniture	Drop Tester Universal Tester
General Purpose Office Chairs - Stability Tests (See Note 6) (See Note 6)	ANSI/BIFMA X5.1, Section 11	Furniture	Universal Tester
General Purpose Office Chairs - Footrest Static Load Test – Vertical	ANSI/BIFMA X5.1, Section 18	Furniture	Universal Tester
General Purpose Office Chairs - Footrest Durability Test – Vertical – Cyclic	ANSI/BIFMA X5.1, Section 19	Furniture	Universal Tester
General Purpose Office Chairs - Structural Durability	ANSI/BIFMA X5.1, Section 24	Furniture	Universal Tester
Public and Lounge Seating – Backrest Strength Test – Horizontal – Static (See Note 6)	ANSI/BIFMA X5.4, Section 5	Furniture	Universal Tester
Public and Lounge Seating — Backrest Strength Test — Vertical - Static	ANSI/BIFMA X5.4, Section 6	Furniture	Universal Tester
Public and Lounge Seating – Backrest Durability Test – Horizontal – Cyclic	ANSI/BIFMA X5.4, Section 7	Furniture	Universal Tester
(See Note 6)			





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Public and Lounge Seating – Backrest Durability Test – Vertical - Cyclic	ANSI/BIFMA X5.4, Section 8	Furniture	Universal Tester
Public and Lounge Seating – Arm Strength Test – Horizontal – Static	ANSI/BIFMA X5.4, Section 9	Furniture	Universal Tester
Public and Lounge Seating – Arm Strength Test – Vertical – Static	ANSI/BIFMA X5.4, Section 10	Furniture	Universal Tester
Public and Lounge Seating – Arm Durability Test – Horizontal – Cyclic	ANSI/BIFMA X5.4, Section 11	Furniture	Universal Tester
Public and Lounge Seating – Arm Durability Test for Multiple Seating Units – Vertical – Cyclic	ANSI/BIFMA X5.4, Section 12	Furniture	Universal Tester
Public and Lounge Seating – Arm Durability Test for Single Seating Units – Angular – Cyclic	ANSI/BIFMA X5.4, Section 13	Furniture	Universal Tester
Public and Lounge Seating — Seating Durability Tests - Cyclic	ANSI/BIFMA X5.4, Section 14	Furniture	Drop tester
Public and Lounge Seating – Drop Test – Dynamic	ANSI/BIFMA X5.4, Section 15	Furniture	Hoist
Public and Lounge Seating – Leg Strength Test – Front and Side Application	ANSI/BIFMA X5.4, Section 16	Furniture	Universal Tester
Public and Lounge Seating – Unit Drop Test – Dynamic	ANSI/BIFMA X5.4, Section 17	Furniture	Hoist
Public and Lounge Seating – Stability Tests	ANSI/BIFMA X5.4, Section 21	Furniture	Universal Tester





Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Item <mark>s,</mark> Materials or Product Tested	Key Equipment or Technology
Public and Lounge Seating – Structural Durability Test – Side-to-side – Cyclic	ANSI/BIFMA X5.4, Section 24	Furniture	Universal Tester
General Purpose large Occupant Office Chairs - Seating Durability Tests - Cyclic	ANSI/BIFMA X5.11, Section 11	Furniture	Drop Tester Universal Tester
Desk/Table Products – Tests Stability Under Vertical Load Test	ANSI/BIFMA X5.5, Section 4.3	Furniture – Desk/Tables	Force Disks Weight Bags
Desk/Table Products – Tests Concentrated Functional Load Test	ANSI/BIFMA X5.5, Section 5.2	Furniture – Desk/Tables	Force Disks Weight Bags
Desk/Table Products – Tests Distributed Functional Load Test	ANSI/BIFMA X5.5, Section 5.3	Furniture – Desk/Tables	Weight Bags
Desk/Table Products – Tests Concentrated proof Load Test	ANSI/BIFMA X5.5, Section 5.4	Furniture – Desk/Tables	Force Disks Weight Bags
Desk/Table Products – Tests Distributed Proof Load Test	ANSI/BIFMA X5.5, Section 5.5	Furniture – Desk/Tables	Weight Bags
Desk/Table Products – Tests Top Load Ease Test	ANSI/BIFMA X5.5, Section 6	Furniture – Desk/Tables	Universal Tester
Desk/Table Products – Tests Desk/Table Unit Drop Test	ANSI/BIFMA X5.5, Section 7	Furniture – Desk/Tables	Hoist
Desk/Table Products – Tests Leg Strength Test	ANSI/BIFMA X5.5, Section 8	Furniture – Desk/Tables	Universal Tester
Standard Safety Specification for Clothing Storage Units Excluding section 9.3.3.1	ASTM F2057	Furniture	Force gauge Weights
Standard Performance Specification for Tipover Restraints Used with Clothing Storage Units	ASTM F3096	Furniture	Force gauge





Note:

- 1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2238.
- 2. Automatic Enumeration systems are used in the Antimicrobial test methods.
- 3. Culture storage at $5 + / 2 \deg C$.
- 4. Conditioning: Temperature at 21 +/- 2 deg C; Humidity at 65 +/- 5% RH.
- 5. This laboratory offers commercial testing service.
- 6. Modified Chair Measuring Device used.
- 7. Water testing conditions: Temperature at 21 +/- 2 deg C; Humidity at 65 +/- 5% RH

Jason Stine, Vice President



