



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ARCWEAR<sup>1</sup>  
 3018 Eastpoint Parkway  
 Louisville, KY 40223  
 Stacy Klausung Phone: 502 333 0510

MECHANICAL

Valid To: March 31, 2018

Certificate Number: 3570.01

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

**Test**

**Test Method**<sup>1</sup>

Dimensional Changes of Laundering

AATCC 135

Domestic Washing & Drying Procedures for Textile Testing

ISO 6330 – Textiles  
 All Washing Procedures for  
 Machine Type A;  
 Drying Procedures A, B, C, D  
 and F;  
 IEC 61482-2 (Section 5.1.2),  
 Edition 1.0, 2009-04

Mass per Unit of Fabric – Option C

ASTM D3776 Option C

Bursting Strength of Textile Fabrics – Diaphragm

ASTM D3786

Tearing Strength of Fabrics – Pendulum Apparatus  
 (Elmendorf – Type)

ASTM D1424

Flame Resistance of Textiles (Vertical Test)

ASTM D6413

Breaking Strength and Elongation (Grab Test) Breaking Strength Only

ASTM D5034

Colorfastness to Laundering

AATCC61 Method 2A, 3A

Resistance of Yarns to Seam Slippage

ASTM D434 – 95  
 (Withdrawn 2004)<sup>2</sup>

Fiber Identification- Microscopical Analysis (Qualitative)

AATCC 20 (Sections 9.2, 9.3)

Trapezoidal Tear Strength

ASTM D5587;  
 ASTM D5733 – 99  
 (Withdrawn 2008)<sup>2</sup>

Seam Breaking Strength

ASTM D1683

Heat & Thermal Shrinkage

ASTM F2894

Thread Melt

FTMS 191A Method 1534

(A2LA Cert. No. 3570.01) Revised 05/15/2017

Page 1 of 4

Cut Resistance

ASTM F2992;  
ISO 13997

Puncture Resistance

BS: EN 388 Section 6.4

**NFPA 2112**

**NFPA 2112 Referenced  
Test Method**

**Test Section and  
Requirements in  
NFPA 2112**

Flame Resistance of Textiles (Vertical Test)  
Section 8.3  
Heat & Thermal Shrinkage

ASTM D6413  
AATCC 135  
NFPA 2112 Section 8.4  
AATCC 135

Section 8.3  
NFPA 2112 Section 8.4

Washing & Drying per NFPA 2112  
Thread Melt  
Product Label Requirements  
Design Requirements

NFPA 2112 Section 8.1.3  
FTMS 191A Method 1534  
NFPA 2112 Section 5.1  
NFPA 2112 Section 6

NFPA 2112 Section 8.1.3  
NFPA 2112 Section 8.6  
NFPA 2112 Section 5.1  
NFPA 2112 Section 6

**NFPA 1975**

**NFPA 1975 Referenced  
Test Method**

**Test Section and  
Requirements in  
NFPA 1975**

Flame Resistance of Textiles  
Heat and Thermal Shrinkage Resistance  
Thermal Stability Test  
Seam Breaking Strength Test  
Thread Heat Resistance Test  
Label Print Durability Test

ASTM D6413  
ASTM F2894  
ASTM F2894  
ASTM D1683  
NFPA 1975 Section 8.7  
NFPA 1975 Section 8.5

NFPA 1975 Section 8.6  
NFPA 1975 Section 8.3  
NFPA 1975 Section 8.3  
NFPA 1975 Section 8.4  
NFPA 1975 Section 8.7  
NFPA 1975 Section 8.5

**NFPA 1977 Standard on Protective Clothing  
and Equipment for Wildland Firefighting**

**NFPA 1977 Referenced  
Test Method**

**Test Section and  
Requirements in  
NFPA 1977**

NFPA 1977 Laundry Preconditioning  
Flame Resistance of Textiles (Vertical Test)  
Heat and Thermal Shrinkage Resistance Test  
Tear Resistance Test  
Cleaning Shrinkage Resistance Test  
Seam Breaking Strength Test  
Label Legibility Test 1-Laundering,  
Heat Durability  
Thread Melt

AATCC 135  
ASTM D6413  
NFPA 1977 Section 8.4  
ASTM D1424  
AATCC 135  
ASTM D1683  
NFPA 1977 Section 8.31.4.1  
NFPA 1977 Section 8.9

NFPA 1977 Section 8.1.2  
NFPA 1977 Section 8.3  
NFPA 1977 Section 8.4  
NFPA 1977 Section 8.6  
NFPA 1977 Section 8.7  
NFPA 1977 Section 8.8  
NFPA 1977 Section 8.31.4.1  
NFPA 1977 Section 8.9

*<sup>1</sup> The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the documents (material specifications, guides, practices, conversion tables) listed below. The inclusion of these documents on this Scope does not confer laboratory accreditation to them nor does it confer accreditation for the method(s) embedded within them.*



**ASTM F1506-10a Standard Performance Specification for Flame Resistant and Arc Rated Textile Materials for Wearing Apparel for use by Electrical Workers Exposed to Momentary Electric Arc and Related Thermal Hazards**

**ASTM F1506-10a Referenced Test Method**

**ASTM F1506-10a Requirements**

Flame Resistance of Textiles (Vertical Test) Sections 7.6, 7.6.1, 7.6.1.1, 7.6.1.2

ASTM D6413  
AATCC 135

Initial Flammability, After 25 Washes;  
Flammability Requirements in Tables 1, 2 and 3

Bursting Strength of Textiles Fabrics – Diaphragm Section 7.7

ASTM D3786

Bursting Strength Requirements in Table 1

Breaking Strength and Elongation (Grab Test) Breaking Strength Only (elongation is optional in this method) Section 7.1

ASTM D5034

Breaking Strength Requirements in Table 1

Tearing Strength of Fabrics – Pendulum Apparatus (Elemendorf – Type) Section 7.2

ASTM D1424

Tear Resistance Requirements in Table 1

Colorfastness to Laundering Section 7.4.1

AATCC 61

Colorfastness to Laundering Requirements in Tables 1 and 2

**ASTM F1891-12 Standard Specification for Arc and Flame Resistant Rainwear**

**ASTM F1891-12 Referenced Test Method**

**Test Section and Requirements in ASTM F1891-12**

Flame Resistance of Textiles (Vertical Test) Section 9.2

ASTM D6413  
AATCC 135

Section 9.2

Fabric Weight

ASTM D3776 Option C

Section 7.1.2

Trapezoidal Tear Resistance

ASTM D1117

Section 7.4



**ANSI/ISEA 107-2015 American National Standard for High-Visibility Public Safety Vests**

**ANSI/ISEA 107-2015 Referenced Test Method**

**Test Section and Requirements in ANSI/ISEA 107-2015**

Design	ANSI 107 Section 6	Section 6
Criteria for Optional Features and Testing	ANSI 107 Section 7	Section 7
Dimensional Change of Background Material	AATCC 135-2012	Section 8.3
Tear Resistance of Woven Materials (Uncoated, Coated or Laminate)	ASTM D1424-09 (2013)	Section 8.4.2
Flame Resistance	ASTM F1506-10a ASTM F1891-12 ASTM F2302-08 ASTM F 2733-09 NFPA 1977(2011) NFPA 2112 (2012)	Section 10.5
Care Labeling	ANSI 107 Section 11	Section 11
Marking	ANSI 107 Section 12	Section 12
Instructions for Use	ANSI 107 Section 13	Section 13

**ANSI/ISEA 105-2016 American National Standard for Hand Protection Classification Section**

**ANSI/ISEA 105-2016 Referenced Test Method**

**Test Section and Requirements in ANSI/ISEA 105-2016**

Cut Resistance	ASTM F2992	Section 5.1.1
Puncture Resistance	BS:EN 388 Section 6.4	Section 5.1.2

<sup>2</sup> NOTE: 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.





## *Accredited Laboratory*

A2LA has accredited

### **ARCWEAR**

*Louisville, KY*

for technical competence in the field of

## Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 8 January 2009).



Presented this 19<sup>th</sup> day of May 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 3570.01  
Valid to March 31, 2018  
Revised May 15, 2017

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