

TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Accredited Laboratory No. 942

Legal Name of Accredited Laboratory: **Kinectrics Inc.**

Location Name or Operating as (if applicable): Kinectrics Arcwear LLC

Contact Name: Dave Clarke/Brian Shiels

Address: 3018 Eastpoint Parkway Louisville, KY 40223

Telephone: +1-416-207-6000
+1-502-333-0510 (ArcWear office)

Website: www.kinectrics.com
www.arcwear.com

Email: Dave.clarke@kinectrics.com;
Brian.shiels@kinectrics.com

SCC File Number:	151254
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Mechanical/Physical Thermal & Fire Resistance
Initial Accreditation:	2021-02-24
Most Recent Accreditation:	n/a
Accreditation Valid to:	2025-02-23

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.

TEXTILES AND FIBROUS MATERIALS

Textile Mill Products (including synthetic and natural fibers): Fabrics

AATCC TM135	Test Method for Dimensional Changes of Fabrics after Home Laundering
ISO 6330	Textiles – Domestic Washing and Drying Procedures for Textile Testing Only for Washing Machine Type A; Drying Procedures A, B, C, D and F
IEC 61482-2	Requirements for fabrics and materials for protective clothing for Arc Flash Only Section 5.1.2, edition 1.0, (year 2009)
ASTM D3776	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric Only option C
ASTM D3786	Standard Test Method for Bursting Strength of Textile Fabrics – Diaphragm Bursting Strength Tester Method
ASTM D1424	Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf) Apparatus
ASTM D5034	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test) Only Breaking Strength
AATCC TM61	Test Method for Colorfastness to Laundering: Accelerated Only method 2A, 3A
ASTM D1683	Standard Test Method for Failure in Sewn Seams of Woven Fabrics Only section 7.4
BS: EN 388	Protective gloves against mechanical risks Puncture Resistance Only section 6.4
ASTM D3389; ASTM D3884	Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader) Standard Guide for Abrasion Resistance of Textile Fabrics (Rotary Platform, Double-Head Method)
AATCC TM16.3	Colorfastness to Light: Xenon Arc
ASTM E1164	Standard Practice for Obtaining Spectrometric Data for Object-Color Evaluation
AATCC TM8	Colorfastness to Crocking: AATCC Crockmeter
AATCC TM15	Colorfastness to Perspiration
AATCC TM107	Colorfastness to Water
AATCC TM133	Colorfastness to Hot-Pressing

ASTM D6797	Standard Test Method for Bursting Strength of Fabrics Constant-Rate-of-Extension (CRE) Ball Burst Test
------------	--

Fibres

ASTM D7138, Method 2	Standard Test Method to Determine Melting Temperature of Synthetic Fibers
----------------------	---

Apparel and Other Finished Textile Products: (Others - fire and flammability)

ASTM D6413	Standard Test Method for Flame Resistance of Textiles (Vertical Test)
ASTM F2894	Standard Test Method for Evaluation of Materials, Protective Clothing, and Equipment for Heat Resistance Using a Hot Air Circulating Oven
NFPA 5445	Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire Only sections 5.1, 6, 8.7 and 8.8
ASTM F1358	Flame Impingement
ASTM F2700	Standard Test Method for Unsteady-State Heat Transfer Evaluation of Flame Resistant Materials for Clothing with Continuous Heating
NFPA 1975	Emergency Work Clothing Only for the following articles: 8.3 Heat and Thermal Shrinkage Resistance 8.4 Seam Breaking Strength Test 8.5 Label Print Durability Test 8.6 Flame Resistance of Textiles 8.7 Thread Heat Resistance Test
ASTM F1506	Standard Performance Specification for Flame Resistant and Arc Rated Textile Materials for Wearing Apparel for Use of Electrical Workers Exposed to Momentary Electric Arc and Related Thermal Hazards: Only for the following: ASTM D6413: Flame Resistance of Textiles (Vertical Test) AATCC 135: sections 7.6, 7.6.1, 7.6.1.1 and 7.6.1.2 ASTM D3786: Bursting Strength of Textiles Fabrics – Diaphragm section 7.3 ASTM D5034: Breaking Strength and Elongation (Grab Test) Breaking strength only, section 7.1 ASTM D1424: Tearing Strength of Fabrics – Pendulum Apparatus (Elemendorf – Type) section 7.2 AATCC 61: Colorfastness to Laundering section 7.4.1 AATCC 135: Dimensional change section 7.5
ASTM F1891	Standard Specification for Arc and Flame Resistant Rainwear Only for the following: ASTM D6413: Flame Resistance of Textiles section 9.2 AATCC TM135, section 9.2 ASTM D3776 Option C: Fabric Weight, section 7.1.2 ASTM D1117: Trapezoidal Tear Resistance, section 7.4

Clothing

ASTM F2992	Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing with Tomodynamometer (TDM-100) Test Equipment
ISO 13997:1999	Determination of resistance to cutting by sharp objects
ANSI/ISEA 105 (2016)	American National Standard for Hand Protection Classification Section Only for: section 5.1.1: Cut Resistance (ASTM F2992) section 5.1.2: Puncture Resistance (BS:EN 388, section 6.4) section 5.1.4 Abrasion Resistance (ASTM D3389 & ASTM D3884)
ANSI/ISEA 107 (2015)	American National Standard for High Visibility Safety Apparel and Accessories Only for: section 6: Design (ANSI 106, section 6) section 7: Criteria for Optional Features and Testing (ANSI 107) section 8.2.1: Colorfastness to Crocking (AATCC 8) section 8.2.2: Colorfastness to Perspiration (AATCC 15) section 8.2.3: Colorfastness When Laundered (AATCC 61, 2A,3A) section 8.2.3: Colorfastness Hypochlorite Bleached (AATCC 61, 4A, 5A) section 8.2.3: Colorfastness Hot pressed (AATCC 133) section 8.2.3: Colorfastness to Water (AATCC 107) section 8.2.4 & 10.2: Colorfastness after Xenon Test (AATCC 13.3 & ASTM E1164) section 8.3: Dimensional Change of Background Material (AATCC TM135-2012) section 8.4.1: Bursting Strength of Knitted Materials and Other Nonwoven Constructions (Uncoated, coated or Laminate) (ASTM D6797) section 8.4.2: Tear Resistance of Woven Materials (ASTM D1424-09) section 11: Care Labeling section 12: Marking section 13: Instructions for Use
ANSI/ISEA 105 (2016)	American National Standard for Hand Protection Classification Section Only for: Section 5.1.1: Cut Resistance (ASTM F2992) Section 5.1.2: Puncture Resistance (BS:EN 388, section 6.4) Section 5.1.4 : Abrasion Resistance (ASTM D3389 & ASTM D3884)

CGSB 155.20	<p>Workwear for protection against hydrocarbon flash fire and optionally steam and hot fluids</p> <p>Only for:</p> <p>Section 7.2: Flame Resistance (ASTM D6413)</p> <p>Section 7.4: Heat Resistance</p> <p>Section 7.4: Thermal Shrinkage</p> <p>Section 7.5: Melting Point (ASTM D7138)</p>
ISO 17492	<p>Clothing for protection against heat and flame - Determination of heat transmission on exposure to both flame and radiant heat</p>
CSA Z96-15	<p>High Visibility Safety Apparel</p> <p>Only for the following sections:</p> <p>Section 4: Garment Class and Design Colour of background and combined-performance materials</p> <p>Section 5.1: ASTM E1164</p> <p>Section 5.2.1: Colourfastness to light (Xenon) (AATCC 16.3 & ASTM E1164)</p> <p>Section 5.2.2: Colourfastness to Crocking (AATCC 8)</p> <p>Section 5.2.3: Colourfastness to Perspiration (AATCC 15)</p> <p>Section 5.2.4: Colourfastness When Laundered (AATCC 61, Method 2A, 3A)</p> <p>Section 5.2.4: Colourfastness Hypochlorite Bleached (AATCC 61, Method 4A, 5A)</p> <p>Section 5.2.4: Colourfastness Hot-pressed (AATCC 133)</p> <p>Section 5.2.4: Colourfastness to Water (AATCC 107)</p> <p>Section 5.3: Dimensional Change of Background Material (AATCC 135-2012)</p> <p>Section 5.4.2: Tear Resistance of Woven Materials (Uncoated, Coated or Laminate), ASTM D1424-09 (2013)</p> <p>Section 5.7: Ergonomics</p> <p>Section 8: Care Labeling</p> <p>Section 9 : Marking</p> <p>Section 10: Instructions for Use</p>
NFPA 2112 (2018)	<p>Standard on Flame-Resistant Garments for Protection of Industrial Personnel against Flash Fire</p> <p>Only for the following articles:</p> <p>5.1 Product Label requirements</p> <p>6 Design Requirements</p> <p>8.1.3 Washing and Drying</p> <p>8.2 Heat Transfer Performance (HTP) test</p> <p>8.3 Flame Resistance Test</p> <p>8.4 Heat and Thermal Shrinkage Resistance Test</p> <p>8.6 Thread Heat Resistance</p> <p>8.7 Label Print Durability Test</p> <p>8.8 Protective Glove Flame Resistance Test</p>

<p>NFPA 1977 (2016)</p>	<p>Standard on Protective Clothing and Equipment for Wildland Fire Fighting Only for the following articles: 8.1.2 Laundry Preconditioning 8.3 Flame Resistance of Textiles (Vertical Test) 8.4 Heat and Thermal Shrinkage Resistance Test 8.6 Tear resistance Test 8.7 Cleaning Shrinkage Resistance Test 8.8 Seam Breaking Strength Test 8.9 Thread Melt 8.13.4.1 Label Legibility Test 1-Laundering, Heat Durability</p>
<p>NFPA 1971 (2018)</p>	<p>Standard on Protective Clothing for Structural Fire Fighting Only for the following articles: 8.2 Flame resistance test 1 8.6 Heat and thermal shrinkage 8.10 Thermal protective performance (TPP) Test 8.12 Tear Resistance Test 8.14 Seam Breaking Strength Test 8.50 Breaking Strength Test</p>

Number of Scope Listings: 38

Notes:

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

- AATCC: American Association of Textile Chemists and Colorists
- ANSI: American National Standards Institute
- ASTM: ASTM International (Formerly American Society for Testing and Materials)
- BS: British Standards
- CGSB: Canadian General Standards Board
- CSA: CSA Group (formerly Canadian Standards Association)
- EN: European Norm
- IEC: International Electrotechnical Commission
- ISEA: International Safety Equipment Association
- ISO: International Standards Organization
- NFPA: National Fire Protection Association



This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
Vice-President, Accreditation Services
Publication on: 2021-03-03