

Submit Samples to:  
**Manufacturing Solutions Center Test Lab**  
 301 Conover Station SE  
 Conover NC 28613



Jodi Geis, Testing Lab Manager  
 Phone: 828-327-7000 Ext.4115  
 jgeis@manufacturingsolutionscenter.org

**\*\*Please note: The bill will come from CVCC (Catawba Valley Community College) along with a copy of this Test Package Request Form. Please make checks payable to "CVCC".**

Please fill out items in **BLUE**

Select the tests to perform; Enclose the correct number of samples

Company Name \_\_\_\_\_  
 Testing Contact \_\_\_\_\_  
 Testing Contact Phone # \_\_\_\_\_

Billing Contact \_\_\_\_\_  
 Billing Phone # \_\_\_\_\_  
 Billing Address \_\_\_\_\_  
 Billing Address \_\_\_\_\_  
 Billing Address \_\_\_\_\_

Test results will ONLY be sent to those emails listed here:

Name _____	Email _____	PO # _____
Name _____	Email _____	if applicable _____
Name _____	Email _____	
Name _____	Email _____	

**"X" for Express Testing**

<input type="checkbox"/>	Express Testing:	If testing permits, some test methods can be performed in 2 business days or less for double the cost.
		Certain Antimicrobial Testing can be performed in 5 business days or less for double the cost.

Return Tested Samples: Shipping fees apply & can be added to the invoice or provide:  Customer Will Pick Up

Carrier & Shipping Speed \_\_\_\_\_ Shipping Address if different from billing address \_\_\_\_\_  
 Account # \_\_\_\_\_  
 Billing Account Zip Code \_\_\_\_\_

Sample Style Number(s) \_\_\_\_\_ Sock or Garment Size (if applicable) \_\_\_\_\_  
 Sample Color(s) \_\_\_\_\_

Sample Description(s) \_\_\_\_\_

Special Instructions \_\_\_\_\_

For **ANY** laundering-AATCC Standard Ref. Detergent will be used unless otherwise specified: \_\_\_\_\_

Laundering/Care Instructions \_\_\_\_\_

Fiber Content \_\_\_\_\_

**Not supplying enough samples will only increase testing turnaround time. Please indicate face & selvaqe of fabric if applicable**

Date Received _____	Test Number _____
Date Completed _____	Lab Tech Signature <i>Jodi B. Geis</i>

*Unless otherwise specified, the latest publication of a test method is run. Test methods with older publication dates can be run if requested.*

Test Description	Testing Method	Amount of Fabric /Garments to Send	Price	# of Tests	Total
<b>Fiber Analysis, Identification &amp; Construction of Fabric &amp; Yarn Cones:</b>					
Fiber/Yarn Questions? Contact Fiber Analysis Specialist Shane Lynch: 828-327-7000 Ext. 4146					
Fiber Content of a Yarn or Fabric in %	AATCC 20 & 20A	1 cone or 1/2 yard	\$30.00		
Fiber Content of a Sock or Pantyhose in %	AATCC 20 & 20A	2 Socks	\$60.00		
Fiber Content of a Sock or Pantyhose in % (high pattern)	AATCC 20 & 20A	2 Socks	\$85.00		
Fiber Content	ASTM D629	1 cone or 1/2 yard	\$60.00		
Fiber Content	CAN/CGSB-4.2 NO. 14-2005	1 cone or 1/2 yard	\$60.00		
Fiber Content/Yarn Count/Construction for Entire Sock (approx. 8-12 yarn counts) (\$60.00+\$85.00)	ASTM D1059 & D2260	2 Socks	\$145.00		
Specialty Fiber Microscopy/Cross Section \$35/hr.	AATCC 20	1 cone	\$35.00		
Yarn Count/Denier/Construction for Fabric - \$11.00 per yarn	ASTM D1059 & D2260	1 yard	\$11.00		
Yarn Number by the Skein Method (120 yard reeling) from Cone of Yarn	ASTM D1907/D1907M	1 cone	\$5.50		
Filament Count per Yarn Identified	ASTM D1059 & D2260	40" of Yarn	\$11.00		
Breaking Load (Strength) of Yarn by the Skein Method (120 yard reeling)	ASTM D1578	1 cone	\$5.50		

Twist in Yarns by Direct Counting or Untwist/Retwist Method (Ply & Single)	ASTM D1423	1 Cone or 1 yard	\$11.00		
Extractable Matter in Textiles: OPU%(Oil Pick Up%)	MSC-107	1 cone	\$11.00		
Single Yarn Strength & Elongation (Statimat) - Single Ply	ASTM D2256	1 cone	\$27.50		
Single Yarn Strength & Elongation (Statimat) - Multi Ply	ASTM D2256	1 cone	\$55.00		
Shrinkage of Yarns in Boiling Water	ASTM D2259	1 cone	\$30.00		
Shrinkage of Yarns in Dry Heat	ASTM D2259	1 cone	\$30.00		
Staple Length - Per Measurement	ASTM D3661 Modified	1 cone	\$22.00		
Tensile Properties of Yarn - Single Strand Method (CRE Method)	ASTM D2256	1 cone	\$11.00		
Coefficient of Friction - Yarn to Solid Material	ASTM D3108	1 cone	\$5.50		
Spinning Type (OE, Ringspun, etc.)	ASTM D3888	1 cone	\$5.50		
Melting Point	ASTM D276	1 cone	\$5.50		
Yarn Evenness/Unevenness Testing	ASTM D1425 Modified	1 cone	\$27.50		
Picks Per Inch	ASTM D3775	1/4 full width	\$16.50		
Determination of Number of Threads Per Unit Length - Woven Fabrics	CAN/CGSB-4.2 No. 6-2013	1/4 full width	\$16.50		
Knit Fabric Count (Courses Per Inch & Wales Per Inch)	ASTM D3887	1	\$16.00		
Needle Count of a Sock	MSC-102	1 Sock	\$5.50		
Course Count of a Sock	MSC-106	1 Sock	\$27.50		
Deconstructing Fabric into yarn form so that yarn testing can be performed			\$30.00		
Defect Analysis/Examination			\$35.00		
<b>Antimicrobial/Antibacterial Testing:</b>					
Anti-microbial Questions? Contact Antimicrobial Specialist Maria Curry: 828-327-7000 Ext. 4521	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
<b>Cost of Antimicrobial tests are based on the standard test methods. Any modification or special request may increase the final cost.</b>					
Antibacterial Finishes <b>Accredited ISO/IEC 17025</b>	AATCC 100	2 (or 20 grams)	\$275.00		
Antibacterial Finishes: Natick Clarification for Testing for AATCC 100	Natick Spec	2 (or 20 grams)	Call for Info		
Natick Repeated Laundering Procedure (Wash/Dry Cycles)			\$6.00		
Antibacterial Parallel Streak <b>Accredited ISO/IEC 17025</b>	AATCC 147	2 (or 20 grams)	\$75.00		
Antimicrobial Activity <b>Accredited ISO/IEC 17025</b>	ASTM E2149	2 (or 20 grams)	\$235.00		
Additional Shake Time - Above 1 hour (specify time to shake \$5/hr.) for ASTM E2149			\$5.00		
Antibacterial Activity and Efficacy on Textile Products	JIS L 1902:2008	2 (or 20 grams)	\$375.00		
Determination of Antibacterial Activity of Antibacterial Finished Products – Textiles	ISO 20743:2013	2 (or 20 grams)	\$375.00		
Determining the Activity of Incorporated Antimicrobial Agents in Polymeric of Hydrophobic Materials	ASTM E2180	contact for instructions	\$425.00		
Special/Other Antimicrobial					
Repeated Home Laundering (automated washer)-AATCC Liquid Detergent w/o Brightener	AATCC 150		\$4.00		
<b>AHFA (American Home Furnishings Association)</b>					
<b>Upholstery/Furniture Testing</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Elongation - Woven Upholstery Fabric	AHFA JIFS&G Ch. 10	1 yard full width	\$24.20		
Colorfastness to Crocking	AATCC 8; AHFA JIFS&G Ch. 5	1 yard full width	\$11.00		
Colorfastness to Water	AATCC 107; AHFA JIFS&G Ch. 4	12" x 12"	\$11.00		
Colorfastness to Solvent	ASTM D3597-6.7; AHFA JIFS&G Ch. 4	12" x 12"	\$16.50		
Colorfastness to Light - Option E <b>AFU hours to expose:</b> _____ \$1.40 per hour	AATCC 16; AHFA JIFS&G Ch. 6	12" x 12"	\$1.40		
Dimensional Stability To Water	AHFA JIFS&G Ch. 9	1 yard full width	\$12.10		
Dimensional Stability To Solvent	AHFA JIFS&G Ch. 9	1 yard full width	\$18.15		
Break Strength and Elongation of Fabrics - Grab Test <b>Accredited ISO/IEC 17025</b>	ASTM D5034; AHFA JIFS&G Ch. 26	1 yard full width	\$25.00		
Wyzenbeek Abrasion - up to 15,000 double rubs Using Foam Backing & Wire Screen	ASTM D4157; AHFA JIFS&G Ch. 1	1 yard full width	\$65.00		
Wyzenbeek Abrasion - 15,001 to 30,000 double rubs Using Foam Backing & Wire Screen			\$82.50		
Double Rubs past 30,000 are \$13.20 per each additional 5000 double rubs			\$13.20		
Pilling Resistance - Brush Pilling Tester	ASTM D3511	1/2 yard	\$30.00		
Picks Per Inch (Yarn Count)	ASTM D3775; AHFA JIFS&G Ch. 15	1/4 full width	\$16.50		
Determination of Number of Threads Per Unit Length - Woven Fabrics	CAN/CGSB-4.2 No. 6-2013	1/4 full width	\$16.50		
Seam Break Strength and Seam Slippage-Failure in Sewn Seams	ASTM D1683; AHFA JIFS&G Ch.21	1 yard	\$60.00		
Tear Strength of Fabrics - Tongue Tear (Single Rip) - Woven and Knit	ASTM D2261; AHFA JIFS&G Ch. 25	1 yard	\$25.00		
Tear Strength of Fabrics - Trapezoid Procedure - Tricot <b>Accredited ISO/IEC 17025</b>	ASTM D5587-08; AHFA JIFS&G Ch. 25	1 yard	\$25.00		
Fiber Migration	AHFA JIFS&G Ch. 27	1 yard	\$35.00		
<b>ACT (Association for Contract Textiles)</b>					
<b>Upholstery/Furniture Testing</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>

Wyzenbeek Abrasion - ACT General Fabric up to 15,000 double rubs #10 Cotton Duck			\$65.00		
Wyzenbeek Abrasion - ACT Heavy Duty Fabric 15,001 to 30,000 double rubs #10 Cotton Duck	ASTM D4157 - ACT	1 yard full width	\$82.50		
Double Rubs past 30,000 are \$13.20 per each additional 5000 double rubs			\$13.20		
Abrasion Resistance - Martindale Abrasion General Upholstery to 20,000 cycles (movements)	ASTM D4966 - ACT	1/2 yard	\$50.00		
Abrasion Resistance - Martindale Abrasion Heavy Duty to 40,000 cycles (movements)	ASTM D4966 - ACT	1/2 yard	\$50.00		
Wet & Dry Crocking - ACT guidelines for Upholstery, Wallcoverings or Drapery	AATCC 8 - ACT	12" x 12"	\$11.00		
Colorfastness to Light-Opt 3 ACT - Upholstery AFU hours expose: <u>40</u> \$1.40 pr hour	AATCC 16.3 - ACT	12" x 12"	\$56.00		
Colorfastness to Light-Opt 3 ACT - Wall Coverings AFU hours expose: <u>40</u> \$1.40 pr hour	AATCC 16.3 - ACT	12" x 12"	\$56.00		
Colorfastness to Light-Opt 3 ACT - Drapery AFU hours expose: <u>60</u> \$1.40 pr hour	AATCC 16.3 - ACT	12" x 12"	\$84.00		
NFPA 701 - Drapery	NFPA 701 TM1 - ACT	10 garments/1 yd	\$90.75		
Break Strength & Elongation - Upholstery <b>Accredited ISO/IEC 17025</b>	ASTM D5034 - ACT	1 yard	\$25.00		
Break Strength & Elongation - Wrapped Panels & Upholstered Walls <b>Accredited ISO/IEC 17025</b>	ASTM D5034 - ACT	1 yard	\$25.00		
Seam Slippage - Upholstery (Both Fabric Directions)	ASTM D4034 - ACT	1 yard	\$60.00		
Seam Slippage - Drapery (Both Fabric Directions)	ASTM D434 - ACT	1 yard	\$60.00		
<b>Colorfastness Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Colorfastness to Chlorine Bleach	AATCC/ASTM TS-001	1	\$11.00		
Colorfastness to Chlorine Bleach	AATCC 61 5A	1	\$11.00		
Colorfastness to Sodium Hypochlorite Bleach in Home Laundering	AATCC 188	1	\$11.00		
Colorfastness to Crocking - Wet and Dry	AATCC 8	1	\$11.00		
Colour fastness to Crocking/Rubbing	ISO 105-X12:2001	1	\$11.00		
Colorfastness to Crocking	CAN/CGSB 4.2 No. 22-2004	1	\$11.00		
Colorfastness to Laundering - Accelerated <b>Select with Option: 1A, 1B, 2A, 3A, 4A or 5A</b>	AATCC 61	1	\$11.00		
Colour fastness to Laundering - Accelerated	ISO 105 C-06:1994	1	\$11.00		
Colorfastness to Laundering - Accelerated	CAN/CGSB 4.2 No. 19.1-2004 (#2)	1	\$11.00		
Colorfastness After Actual Home Laundering	AATCC/ASTM TS-007	2	\$11.00		
Colorfastness to Light: Xenon-Arc - Option 3 or E or 16.3 - \$1.40/hr. <b>Exposure hrs.</b> _____	AATCC 16 e or 3 or 16.3	1 or >12"x12"	\$1.40		
Colour fastness to Artificial Light - Xenon Arc Fading Lamp Test	ISO 105-B02:1994	1	\$55.00		
Colorfastness to Non-Chlorine Bleach	AATCC/ASTM TS-001	1	\$11.00		
Colorfastness to Non-Chlorine Bleach	AATCC 172	1	\$11.00		
Colorfastness to Perspiration - Acid Perspiration Solution Only	AATCC 15 Acid Only	6"x6" Swatch (1sock)	\$16.50		
Colorfastness to Perspiration - Acid & Alkaline Perspiration Solution	AATCC 15 Acid & Alkaline	6"x6" Swatch (1sock)	\$33.00		
Colour fastness to Perspiration	ISO 105-E04:1994	6"x6" Swatch (1sock)	\$27.50		
Colorfastness to Perspiration	CAN/CGSB 4.2 No. 23-M90	6"x6" Swatch (1sock)	\$27.50		
Colorfastness to Saliva	DIN V 53160-1 2002	1	\$16.50		
Colorfastness to Water	AATCC 107	6"x6" Swatch (1sock)	\$11.00		
Colour fastness to Water	ISO 105-E01:2010	6"x6" Swatch (1sock)	\$11.00		
Colourfastness to Water	CAN/CGSB-4.2 No. 20-M89	6"x6" Swatch (1sock)	\$11.00		
Colorfastness to Solvent Spotting: Perchloroethylene	AATCC 157	1	\$16.50		
Colorfastness to Solvent - Performance Specification for Woven Upholstery Fabrics	AATCC 107; ASTM D3597	1	\$16.50		
Colorfastness to Sea Water	AATCC 106	6"x6" Swatch (1sock)	\$11.00		
Colorfastness to Water Spotting	AATCC 104	2	\$11.00		
Colorfastness to Perspiration and Light	AATCC 125	2	\$38.50		
Instrumental Color Measurement - Spectrophotometer	AATCC EP6	1	\$5.50		
Colorfastness: Dye Transfer in Storage; Fabric to Fabric - Option I (48 hour room temp test)	AATCC 163 Option I	6"x6" Swatch (1sock)	\$11.00		
Colorfastness: Dye Transfer in Storage; Fabric to Fabric - Option II (Accelerated 4 hour oven test)	AATCC 163 Option II	6"x6" Swatch (1sock)	\$11.00		
Colorfastness to Water: Chlorinated Pool	AATCC 162	6"x6" Swatch	\$30.00		
Colorfastness to Actual Dry Cleaning	AATCC 132	6"x6" Swatch (1sock)	\$16.50		
<b>Compression Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Compression - 1 Setting (mmHg) Bolam Hatra Type	BS 6612:1985/BS 7563:1999 modified	4	\$30.25		
<b>Durability Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Abrasion Resistance - Fabric (Martindale Tester): Option 1 = hole in knits or Option 2 = ends break in wovens Up to 25,000 movements	ASTM D4966 Option 1	1/2 yard	\$50.00		
Movements past 25,000 are \$10 per each 5,000 movements		1/2 yard	\$10.00		

Abrasion Resistance - Fabric (Martindale Tester): Option 2=change in shade/appearance	ASTM D4966 Option 2	1/2 yard	\$50.00		
Abrasion Resistance - Fabric (Martindale Tester): Option 3=mass loss as a percentage	ASTM D4966 Option 3	1/2 yard	\$50.00		
Abrasion Resistance - Fabric (Martindale Tester) - Specimen Breakdown	ISO 12947-2:1998	1/2 yard	\$50.00		
Abrasion Resistance - Fabric (Martindale Tester) - Mass Loss	ISO 12947-3:1998	1/2 yard	\$50.00		
Movements past 25,000 are \$10 per each 5,000 movements		1/2 yard	\$10.00		
Abrasion Resistance- <b>Socks</b> Straight Line Abrasion up to 10,000 cycles Must have NAHM sock size <b>Circle Which Area to Test: Sole of Foot, Ball of Foot, Heel</b>	THA Martindale Abrasion Method	3 Socks	\$50.00		
Cycles past 10,000 are \$5.00 each additional 1,000 cycles			\$5.00		
Abrasion Resistance Determination	BS3424-24: 1990 Method 27A	1/2 yard	\$48.40		
Applied Decorations	16 CFR 1500.51-52	3	\$12.10		
Burst Strength - CRE Method (for socks and hosiery)	ASTM D6797	5	\$12.10		
Burst Strength - Mullen Burst Tester	ASTM D3786/D3786M	5	\$12.10		
Pilling Resistance - Fabrics Thicker Than 3mm (Random Tumble Pill Tester) at 30 minutes	ASTM D3512/D3512M	3 or 1/2 yard	\$18.15		
Resistance to Pilling - Random Tumble Pilling Tester	CAN/CGSB-4.2 No. 51.2-M87	3 or 1/2 yard	\$25.00		
Pilling Resistance - Fabrics Less Than 3mm (Martindale Tester) Circle to test: <b>ORIGINAL STATE OR AFTER LAUNDERING</b> (provide laundering instructions)	ASTM D4970/D4970M	1 yard	\$18.15		
Pilling Resistance - Brush Pilling Tester	ASTM D3511	1/2 yard	\$30.00		
Snap Testing - Holding Strength of Prong Ring Attached Snap Fasteners	ASTM D7142	3 garments	\$12.10		
Snap Testing - Resistance of Unsnapping of Snap Fasteners	ASTM D4846	3 garments	\$12.10		
Stretch Properties of Textile Fabrics - CRE Method	ASTM D6614	1 yard	\$18.15		
Stretch Properties of Knitted Fabrics Having Low Power - Elastic Recovery	ASTM D2594	1	\$25.00		
Stretch Properties - Tension and Elongation of Elastic Fabrics	ASTM D4964	1	\$25.00		
Stretch Properties of Fabrics Woven from Stretch Yarns	ASTM D3107	1	\$50.00		
Elastic Recovery At the Sock Cuff "Stay Up"	MSC method	1	\$11.00		
Break Strength & Elongation of Fabrics - Grab Test <b>Accredited ISO/IEC 17025</b>	ASTM D5034	1 yard	\$25.00		
Breaking Strength of Fabrics - Grab Method - Constant-Time-to-Break Principle	CAN/CGSB-4.2 No. 9.2-M90	1 yard	\$25.00		
Break Strength - Grab Test of Coated Fabrics	ASTM D751 Sect 12-15; Proc A	1 yard	\$25.00		
Break Strength & Elongation of Fabrics - Strip Method	ASTM D5035	1 yard	\$25.00		
Tearing Strength - Single Rip Method	CAN/CGSB-4.2 No. 12.1-M90	1 yard	\$25.00		
Breaking Force & Elongation of Nonwoven Materials (Strip Method)	WSP 110.4 2009	1 yard	\$25.00		
Grab Breaking Load & Elongation of Geotextiles	ASTM D4632	1 yard	\$25.00		
Tear Strength of Fabrics - Tongue Tear (Single Rip)	ASTM D2261	1 yard	\$25.00		
Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type)	ASTM D1424	1 yard	\$60.00		
Tear Strength of Non-woven Fabrics - Tongue Tear (Single Rip)	ASTM D5735	1 yard	\$25.00		
Tearing Strength of Nonwoven Fabrics by the Tongue Tear (Single Rip) Procedure (CRE)	WSP 100.3 2009	1 yard	\$25.00		
Tear Strength of Fabrics - Trapezoid Procedure <b>Accredited ISO/IEC 17025</b>	ASTM D5587	1 yard	\$25.00		
Trapezoid Tear Strength of Geotextiles	ASTM D4533	1 yard	\$25.00		
Tear Strength of Non-Woven Fabrics-Trapezoid Procedure <b>Accredited ISO/IEC 17025</b>	ASTM D5733	1 yard	\$25.00		
Tear Strength of Nonwoven Fabrics by the Trapezoid Procedure	WSP 100.2 2009	1 yard	\$25.00		
Failure in Sewn Seams in Woven Apparel Fabric - Seam Strength	ASTM D 1683	1 yard	\$60.00		
Seam Slippage - Woven Fabrics	ASTM D434	1 yard	\$44.00		
Breaking Strength and Elongation of Textile Webbing, Tape and Braided Material	ASTM D6775	1 yard	\$30.00		
Strength and Elongation, Breaking (Webbing, Tape, and Braided Items)	Federal Test 191A method 4108	1 yard	\$30.00		
Strength and Elongation Breaking of Cordage: Non-Spliced Specimen Method	PIA-Test Method-6016	1 yard	\$30.00		
Standard Test Method for Peel Strength of Hook and Loop Touch Fasteners	ASTM D5170	1 yard	\$25.00		
<b>Flammability Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Flammability of Wearing Apparel <b>Accredited CPSIA / ISO/IEC 17025</b>	16 CFR 1610/ASTM D1230	12 garments/1 yd	\$72.60		
Flammability Apparel Exemption - Fabric Weight <b>Accredited CPSIA / ISO/IEC 17025</b>	16 CFR 1610 (ASTM D3776)	3 garments / 1' x 1'	\$24.20		
Flammability Apparel Exemption - Fiber Content <b>Accredited CPSIA / ISO/IEC 17025</b>	16 CFR 1610 (AATCC 20 & 20A)	3 garments / 1' x 1'	\$30.00		
Flame Resistance - 45° Angle Test - One Second Flame Impingement	CAN/CGSM-4.2 No. 27.5-2008	10 garments/1 yd	\$72.60		
Flammability of Children's Sleepwear: Sizes 0-6X	16 CFR 1615	10 garments/1 yd	Ask for pricing		
Flammability of Children's Sleepwear: Sizes 7-14	16 CFR 1616	10 garments/1 yd	Ask for pricing		

Vertical Flammability	Federal Test 191A method 5903	10 garments/1 yd	\$90.75		
Vertical Flammability	ASTM D6413-07 (2011)	10 garments/1 yd	\$90.75		
Vertical Flammability - Flame Impingement	ASTM F1358-00 (2005)	10 garments/1 yd	\$90.75		
NFPA 701 - Fire Tests for Flame Propagation of Textiles and Films	NFPA 701 TM1	10 garments/1 yd	\$90.75		
California Technical Bulletin 117-2013 Section 1-Cover Fabric	CA TB117-2013	1/2 yard	\$80.00		
Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture-Cover Fabric Test	NFPA 260-2013	1/2 yard	\$80.00		
UFAC -Fabric Classification	UFAC	1/2 yard	\$80.00		
<b>Formaldehyde, Phenols, pH &amp; Alkali Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Formaldehyde Detection	JIS 112 L 1041	1	\$30.00		
Formaldehyde Detection (Spot Test Method)	MSC-105 (Spot Test Method)	1	\$30.00		
Formaldehyde Detection - Jar Method	AATCC 112-2008	1	\$30.00		
Formaldehyde - Part 1: Free and Hydrolyzed Formaldehyde (Water Extraction Method) - Textile	ISO 14184-1 Part 1	1	\$30.00		
Formaldehyde - Part 2: Released Formaldehyde (Vapour Absorption Method) - Textile	ISO 14184-1 Part 2	1	\$30.00		
pH Level	AATCC 81	1	\$12.10		
pH of aqueous extract	BS EN ISO 3071:2006	2	\$12.10		
Phenolic Yellowing (propensity to yellow)	ISO 105-X18	1	\$18.15		
Phenol Levels (Plastics)	MSC Phenol Level Method	1	\$18.15		
Alkalinity	AATCC 144	2	\$18.15		
<b>Metal/Lead Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Metal/Lead Screening using XRF Gun	ASTM F2853-10	Call for details	\$27.50		
<b>Moisture Management Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Absorbency - to be performed after 1 home laundering	AATCC/ASTM TS-018	2	\$14.50		
Absorbency - to be performed after 1 home laundering - Option A: Burette Stand Method	AATCC 79: Option A	2	\$14.50		
Absorbency - to be performed after 1 home laundering - Option B: Medicine Dropper Method	AATCC 79: Option B	2	\$14.50		
Absorption of Nonwovens - Liquid wicking rate	ISO 9073-6 Section 6	2	\$26.60		
Drying Rate - to be performed after 1 home laundering	HTC Scale Method	2	\$26.60		
Liquid Moisture Management Properties of Textile Fabrics - MMT Method	AATCC-195	5	\$40.00		
Vertical Wicking-Option A Measure time at given distance; Circle to test: <b>ORIGINAL STATE OR AFTER 1 LAUNDERING</b> (provide laundering instructions)	AATCC 197	3	\$26.60		
Vertical Wicking-Option B Measure distance at given time Circle to test: <b>ORIGINAL STATE OR AFTER 1 LAUNDERING</b> (provide laundering instructions)	AATCC 197	3	\$26.60		
Vertical Wicking - Distance Over Time; to be performed after 1 home laundering	TPACC Method	3	\$26.60		
Vertical Wicking - Time Over Distance; to be performed after 1 home laundering	AATCC/ASTM TS-017	3	\$26.60		
<b>Physical Testing:</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Float Loop Length and Pattern Yarn Strings in Socks		2 Socks	\$11.00		
Appearance After Repeated Home Laundering - Color Change, Skew, Pill, Fuzz	AATCC/ASTM TS-008	2 garments/ ½ yard	\$18.15		
Air Permeability - US Standard (38 cm <sup>2</sup> sample head; 125 Pa; cfm)	ASTM D737	2 garments/ ½ yard	\$18.15		
Air Permeability - British Standard (5 cm <sup>2</sup> sample head, 98 Pa, cm <sup>3</sup> /cm <sup>2</sup> /s)	BS 5636	2 garments/ ½ yard	\$18.15		
Air Permeability of Nonwoven Materials	WSP 70.1 2008	½ yard	\$18.15		
Air Permeability - US Standard (20 cm <sup>2</sup> sample head; 125 Pa; cfm)		2 garments/ ½ yard	\$18.15		
Air Permeability - Australian Standard (38 cm <sup>2</sup> sample head, 98 Pa, cm <sup>3</sup> /cm <sup>2</sup> /s)	AS 2001.2.34-1990	2 garments/ ½ yard	\$18.15		
Care Instruction Confirmation	ASTM D3938	3	\$80.10		
Care Instruction Establish	ASTM D3938	7	\$125.00		
Fabric Weight <i>Accredited ISO/IEC 17025</i>	ASTM D3776	2 garments/ ½ yard	\$12.10		
Fabric Weight (Mass Per Unit Area)	ISO 3801:1977 Method 5	2 garments/ ½ yard	\$12.10		
Unit Mass of Fabrics	CAN/CGSB-4.2 No. 5.1-M90	2 garments/ ½ yard	\$12.10		
Fabric Weight (Mass Per Unit Area) (Nonwovens)	WSP 130.1 2009	2 garments/ ½ yard	\$12.10		
Fabric Mass - Coated Fabrics	ASTM D751 Sect 10.2	½ yard	\$12.10		
Fabric Width	ASTM D3774	3 yards full width	\$12.10		
Determination of Width and Length of Textile Fabrics	CAN/CGSB-4.2 No. 4.1-2008	3 yds full width (min)	\$25.00		
Dimensional Change / Stability (Shrinkage) - Fabrics After Home Laundering	AATCC 135	2 yards full width	\$30.25		
Dimensional Change / Stability (Shrinkage) - Garments After Home Laundering	AATCC 150	3 garments	\$30.25		

Dimensional Change / Stability (Shrinkage) -Socks After Home Laundering by Stretch Method	AATCC 135 / Stretch Method	3 socks	\$30.25		
Dimensional Change / Stability (Shrinkage) - ISO Method	ISO 5077:2007	3 garments	\$30.25		
Dimensional Change / Stability (Shrinkage) - Canadian Method	CAN/CGSB-4.2 No. 58-2004	3 garments	\$30.25		
Dimensional Change / Stability (Shrinkage) - Fabrics After Actual Commercial Dry Cleaning (3)	AATCC 135 & PERC dry cleaning	2 yards full width	\$45.25		
Fit Properties of Socks - NAHM forms & Stretch information - ORIGINAL STATE	HIFOMACO LCS 4800	3 Socks	\$22.15		
Fit Properties of Socks - NAHM forms & Stretch information - AFTER 3 HOME LAUNDERINGS	HIFOMACO LCS 4800	3 Socks	\$38.35		
Fit Properties of Sheers and Tights - THA Volumetric Forms		1 Sheer/Tight	\$30.25		
Fit Properties of Sheers and Tights - Stretch Information	HIFOMACO HT - 36L	1 Sheer/Tight	\$30.25		
Relaxed Layout of Socks/Hosiery		3 Socks/Hosiery	\$12.10		
Soil Release - Oily	AATCC 130	1 yard/2 garment	\$18.15		
Additional Stains for Soil Release Test _____			\$5.50		
Evaluating Stain Removal Performance in Home Laundering - up to 6 Stains (excluding blood)	ASTM D4265	2 yards or MSC will provide fabric	\$45.65		
Additional Stains for Soil Release Test _____			\$5.50		
Smoothness Appearance of Fabrics After Repeated Home Laundering	AATCC 124	3 garments	\$18.15		
Smoothness of Seams in Fabrics After Repeated Home Laundering - Single and Double Seam	AATCC 88B	1 garment	\$18.15		
Snagging - ABC Tester	ASTM D3939/D3939M	1 yard	\$18.15		
Repeated Home Laundering (\$2.70 per Laundering)-AATCC Powder Detergent w/o Brightener	AATCC 150		\$2.70		
Repeated Home Laundering (\$2.70 per Laundering)-AATCC Liquid Detergent w/o Brightener	AATCC 150		\$2.70		
Repeated Home Laundering (\$2.70 per Laundering)-Other: _____	AATCC 150		\$2.70		
Repeated Home Laundering at Temps above 120°F (\$3.00 per Laundering)	AATCC 150		\$3.00		
Repeated Hand Laundering (\$2.70 per Laundering)-AATCC Powder Detergent w/o Brightener	AATCC/ASTM TS-006		\$2.70		
Domestic Washing and Drying Procedures for Textile Testing	ISO 6330:2000		\$2.70		
Fabric Hand	AATCC EP5	2	\$6.00		
Horizontal Pull Slipmeter - Slip Resistance Laminate Hardwood & Ceramic Tile	ASTM F09-05	3	\$30.25		
Water Repellency: Spray Test	AATCC 22	1/2 yard	\$12.10		
Determination of Resistance to Surface Wetting (Spray Test)	ISO 4920:2012	1/2 yard	\$12.10		
Water Resistance: Impact Penetration Test	AATCC 42	1/2 yard	\$15.00		
Surface Water Absorption of Terry Fabrics (Water Flow)	ASTM D4772	1 yard	\$38.50		
Aqueous Liquid Repellency: Water/Alcohol Solution Resistance Test	AATCC 193	2	\$12.10		
Oil Repellency: Hydrocarbon Resistance Test	AATCC 118	2	\$12.10		
Visual Inspection and Defect Identification	ASTM D3990-12/D5430	2 yards/2 garments	\$12.10		
Skewness Change in Fabric and Garment Twist	AATCC 179	3 garments	\$30.25		
Moisture Vapor Transmission - MVTR (Water Vapor Transmission)	ASTM E96 Procedure B	3 garments	\$165.00		
Moisture Vapor Transmission - MVTR (Water Vapor Transmission) Inverted Cup Method BW	ASTM E96 Procedure BW	3 garments	\$165.00		
Foam Density	ASTM D3574 Test A	Volume more than 1000mm <sup>3</sup>	\$30.00		
Foam Indentation Force Deflection Test – Specified Deflection (IFD)	ASTM D3574 Test B <sub>1</sub>	More than 380mm x 380mm x 100mm sample size	\$44.00		
Indentation Residual Gauge Length Test – Specified Force (IRGL)	ASTM D3574 Test B <sub>2</sub>	More than 380mm x 380mm x 100mm sample size	\$44.00		
Compression Force Deflection Test	ASTM D3574 Test C	More than 380mm x 380mm x 100mm sample size	\$44.00		
Constant Deflection Compression Set Test	ASTM D3574 Test D	More than 380mm x 380mm x 100mm sample size	\$44.00		
Static Force Loss Test at Constant Deflection	ASTM D3574 Test I <sub>1</sub>	More than 380mm x 380mm x 100mm sample size	\$44.00		
Dynamic Fatigue Test by Constant Force Pounding Procedure A (8,000 cycles)	ASTM D3574 Test I <sub>3</sub>	More than 380mm x 380mm x 100mm sample size	\$150.00		
Dynamic Fatigue Test by Constant Force Pounding Procedure B (80,000 cycles)	ASTM D3574 Test I <sub>3</sub>	More than 380mm x 380mm x 100mm sample size	\$500.00		
Dynamic Fatigue Test by Constant Force Pounding Procedure C (12,000 cycles slower rate)	ASTM D3574 Test I <sub>3</sub>	More than 380mm x 380mm x 100mm sample size	\$550.00		

Recovery Time	ASTM D3574 Test M	More than 380mm x 380mm x 100mm sample size	\$44.00		
Stiffness of Fabrics	ASTM D1388	½ yard	\$45.00		
Fabric Thickness	MSC Method	¼ yard	\$11.00		
Testing Lab Technician Hourly Rate \$35/hr.			\$35.00		
<b>Weather and Light Stability</b>	<b>Testing Method</b>	<b>Fill in ↓</b> <b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Operating Fluorescent Light Apparatus for UV Exposure of Nonmetallic Materials (UVA)	ASTM G154-06 exposure hrs. _____		\$1.40		
Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials	ASTM G155-05a exposure hrs. _____		\$1.40		
Weather Resistance of Textiles: Xenon Lamp Exposure	AATCC 169 exposure hrs. _____ Option? _____	4 yards or 10 garments	\$1.40		
Weather Resistance: UV Light and Moisture Exposure	AATCC 186 exposure hrs. _____ Option? _____	4 yards or 10 garments	\$1.40		
Colorfastness to Light: Xenon-Arc - Option 3 or E or 16.3 - \$1.40/hr. -	AATCC 16.3 exposure hrs. _____	> 12" x 12" sample	\$1.40		
Colorfastness to Light: Outdoor-Option 16.1 (Actual outdoor weathering utilizing a weathering station)	AATCC 16.1 exposure hrs. _____		\$1.40		
Xenon-Arc Exposure Plastics Outdoors Cycle 1 - \$1.40/hr.	ASTM D2565-99/08 exposure hrs. _____		\$1.40		
Geotextile Deterioration-Light, Moisture & Heat using Xenon Arc	ASTM D4355-07 exposure hrs. _____	2 linear yards	\$1.40		
Weatherability of Automotive Parts	JIS D 0205 exposure hrs. _____		\$1.40		
Rubber Deterioration - Using Artificial Weathering Apparatus (Xenon-Arc)	ASTM D750-12 exposure hrs. _____		\$1.40		
Rubber Deterioration - Using Artificial Weathering Apparatus (QUV-UVA)	ASTM D750-12 exposure hrs. _____		\$1.40		
Rubber Deterioration - Discoloration from UV & heat Exposure of Light Colored Surfaces	ASTM D1148-07a exposure hrs. _____		\$1.40		
Accelerated Weathering Test Conditions and Procedures for Bituminous Materials - Cycle A	ASTM D4798-04 exposure hrs. _____		\$1.40		
Accelerated Exposure of Automotive Interior Trim Components - Flat Array Xenon Arc Apparatus	SAE J2412-04 exposure hrs. _____		\$1.40		
<b>Paper Testing (TAPPI):</b>	<b>Testing Method</b>	<b>Amount Needed</b>	<b>Price</b>	<b># of Test</b>	<b>Total</b>
Tensile Properties of Paper and Paperboard Using CRE Apparatus	ASTM D828-2002	1 yard or 20 sheets	\$22.00		
Tensile Properties of Paper and Paperboard CRE	TAPPI T 494 om-06	1 yard or 20 sheets	\$85.00		
Tensile Breaking Strength of Water-Saturated Paper and Paperboard	TAPPI T 456 om-03	1 yard or 20 sheets	\$22.00		
Tensile Properties of Towel and Tissue Products (using CRE machine)	TAPPI T 576 pm-07	Full Roll	\$22.00		
Burst Strength - CRE Method	ASTM D6797	5	\$12.10		
Absorbency (vD Scale Method)	vD Scale Method	10 sheets	\$11.00		
Water Absorbency of Bibulous Papers	TAPPI T 432 cm-09	10 sheets	\$11.00		
Grammage of Paper and Paperboard (Weight Per Unit Area)	TAPPI T 410 om-08	20 sheets	\$12.10		
Center-Pull Pull Test (vD Method)	vD Towel Pull Method	Full Roll	\$35/hr		
Folded Towel Pull Test (vD Method)	vD Towel Pull Method	2 Full Stacks	\$35/hr		
Liquid Moisture Management Properties - MMT Method	AATCC-195	10 sheets	\$30.00		
Disintegration of Towel and Tissue Products	MSC Method	20 sheets	\$11.00		
Roll Length	MSC Method using ILE-AR-18	Full Roll	\$12.10		
Spec for Paper Towels for Industrial and Institutional Use	ASTM D4431-92		call/email		
<b>Other:</b>	<b>Testing Method</b>			<b># of Test</b>	<b>Total</b>
<b>Shipping/Return Samples to Customer (If Applicable) - Tracking Number &amp; Carrier</b>			<b>Price</b>		<b>Total</b>
			\$0.00		
<b>SUB-TOTAL</b>				0	
<b>EXPRESS TESTING</b>				0	
Results from testing may include confidential and proprietary information. I agree to keep this information confidential. I understand that results may be used for research purposes only.				<b>Total Cost</b>	
Lab Manager's Signature	<i>Jodi B. Guis</i>	Date	03/14/14	<b>We accept major credit cards. Call for details (828-327-7000 x4265)</b>	
PRICES SUBJECT TO CHANGE WITHOUT NOTICE					