

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 _____
 Account # _____ different from billing _____
 Billing Account Zip Code _____ address _____

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

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 & selvage of fabric if applicable

Date Received _____ Test Number _____
 Date Completed _____ Lab Tech Signature _____

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
Fiber Analysis, Identification & Construction of Fabric & Yarn Cones: 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		
Antimicrobial/Antibacterial Testing:				# of Test	Total
Anti-microbial Questions? Contact Antimicrobial Specialist Maria Curry: 828-327-7000 Ext. 4521	Testing Method	Amount Needed	Price		
Cost of Antimicrobial tests are based on the standard test methods. Any modification or special request may increase the final cost.					
Antibacterial Finishes Accredited ISO/IEC 17025	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		
Repeated Laundering Procedure (Wash/Dry Cycles in a dedicated washer/dryer pair)	<i>Dedicated washer/dryer pair</i>		\$6.00		
Repeated Home Laundering (automated washer)-AATCC Liquid Detergent w/o Brightener	AATCC 150 <i>Automated washer</i>		\$4.00		
Antibacterial Parallel Streak Accredited ISO/IEC 17025	AATCC 147	2 (or 20 grams)	\$75.00		
Antimicrobial Activity Accredited ISO/IEC 17025	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					
AHFA (American Home Furnishings Association)				# of Test	Total
Upholstery/Furniture Testing	Testing Method	Amount Needed	Price		
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 AFU hours to expose: _____ \$1.40 pr 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 Accredited ISO/IEC 17025	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			\$65.00		
Wyzenbeek Abrasion - 15,001 to 30,000 double rubs Using Foam Backing & Wire Screen	ASTM D4157; AHFA JIFS&G Ch. 1	1 yard full width	\$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 Accredited ISO/IEC 17025	ASTM D5587-08; AHFA JIFS&G Ch. 25	1 yard	\$25.00		
Fiber Migration	AHFA JIFS&G Ch. 27	1 yard	\$35.00		
ACT (Association for Contract Textiles)				# of Test	Total
Upholstery/Furniture Testing	Testing Method	Amount Needed	Price		
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 Accredited ISO/IEC 17025	ASTM D5034 - ACT	1 yard	\$25.00		
Break Strength & Elongation - Wrapped Panels & Upholstered Walls Accredited ISO/IEC 17025	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		
Colorfastness Testing:	Testing Method	Amount Needed	Price	# of Test	Total
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 Select with Option: 1A, 1B, 2A, 3A, 4A or 5A	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. Exposure hrs. _____	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		
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		
Compression Testing:	Testing Method	Amount Needed	Price	# of Test	Total
Compression - 1 Setting (mmHg) Bolam Hatra Type	BS 6612:1985/BS 7563:1999 modified	4	\$30.25		
Durability Testing:	Testing Method	Amount Needed	Price	# of Test	Total
Option 1 = hole in knits or Option 1 = 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- Socks Straight Line Abrasion up to 10,000 cycles Must have NAHM sock size Circle Which Area to Test: Sole of Foot, Ball of Foot, Heel	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 Pilling 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: ORIGINAL STATE OR AFTER LAUNDERING (provide laundering instructions)	ASTM D4970/D4970M	1 yard	\$18.15		
Brush Pilling: Pilling Resistance	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	\$35.00		
Stretch Properties of Knitted Fabrics Having Low Power - Elastic Recovery	ASTM D2594	1	\$35.00		
Stretch Properties - Tension and Elongation of Elastic Fabrics	ASTM D4964	1	\$40.00		
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 Accredited ISO/IEC 17025	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 Accredited ISO/IEC 17025	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 Accredited ISO/IEC 17025	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 (testing both directions)	ASTM D434	1 yard	\$60.00		
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		
Flammability Testing:	Testing Method	Amount Needed	Price	# of Test	Total
Flammability of Wearing Apparel Accredited CPSIA / ISO/IEC 17025	16 CFR 1610/ASTM D1230	12 garments/1 yd	\$90.75		
Flammability Apparel Exemption - Fabric Weight Accredited CPSIA / ISO/IEC 17025	16 CFR 1610 (ASTM D3776)	3 garments / 1' x 1'	\$24.20		
Flammability Apparel Exemption - Fiber Content Accredited CPSIA / ISO/IEC 17025	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		
Formaldehyde, Phenols, pH & Alkali Testing:	Testing Method	Amount Needed	Price	# of Test	Total
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	1	\$30.00		
Formaldehyde Detection - Free and Hydrolyzed Determination of: Water Extraction Method	AATCC 206	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		
Metal/Lead Testing:	Testing Method	Amount Needed	Price	# of Test	Total
Metal/Lead Screening using XRF Gun	ASTM F2853-10	Call for details	\$27.50		
Moisture Management Testing:	Testing Method	Amount Needed	Price	# of Test	Total
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		
Drying Rate - Heated Plate Method	AATCC 201	1/2 yard	\$40.00		
Drying Rate - Air Flow Method	AATCC 200	1/2 yard	\$75.00		
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: ORIGINAL STATE OR AFTER 1 LAUNDERING (provide laundering instructions)	AATCC 197	3	\$26.60		
Vertical Wicking-Option B Measure distance at given time Circle to test: ORIGINAL STATE OR AFTER 1 LAUNDERING (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		
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		
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		
Water Resistance: Hydrostatic Pressure Test	AATCC 127	1/2 yard	\$30.00		
Physical Testing:	Testing Method	Amount Needed	Price	# of Test	Total
Oil Repellency: Hydrocarbon Resistance Test	AATCC 118	2	\$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		
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 ² sample head; 125 Pa; cfm)	ASTM D737	2 garments/ ½ yard	\$18.15		
Air Permeability - British Standard (5 cm ² sample head, 98 Pa, cm ³ /cm ² /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 ² sample head; 125 Pa; cfm)		2 garments/ ½ yard	\$18.15		
Air Permeability - Australian Standard (38 cm ² sample head, 98 Pa, cm ³ /cm ² /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	Accredited ISO/IEC 17025 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		
Linear Dimensional Change	ASTM D1204	½ yard	\$50.00		
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		
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		
Skewness Change in Fabric and Garment Twist	AATCC 179	3 garments	\$30.25		
Foam Density	ASTM D3574 Test A	Volume more than 1000mm ³	\$30.00		
Foam Indentation Force Deflection Test – Specified Deflection (IFD)	ASTM D3574 Test B ₁ □	More than 380mm x 380mm x 100mm sample size	\$44.00		
Indentation Residual Gauge Length Test – Specified Force (IRGL)	ASTM D3574 Test B ₂	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 ₁	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 ₃	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 ₃	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 ₃	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		
Weather and Light Stability	Testing Method	Fill in ↓ Amount Needed	Price	# of Test	Total
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 D2565-99/06 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		
Paper Testing (TAPPI):	Testing Method	Amount Needed	Price	# of Test	Total
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		
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		
Other:	Testing Method			# of Test	Total
Shipping/Return Samples to Customer (If Applicable) - Tracking Number & Carrier			Price		Total
			\$0.00		
SUB-TOTAL				0	
EXPRESS TESTING				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.				Total Cost	
Lab Manager's Signature	<i>Jodi B. Greib</i>	Date	03/14/14		
We accept major credit cards. Call for details (828-327-7000 x4265)					

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