Testing and Services

Effective September 2017 – August 2018

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PROCEDURAL REQUIREMENTS:

We do not accept items shipped “collect.”

For return shipments, specify shipping preference and account number to bill for cost. Otherwise return shipment is sent collect.

If a purchase order (PO) is required, submit with documents authorizing tests.

Payment may be made by credit card. (MasterCard, Visa, American Express and Discover accepted.)

Unless an exemption has been approved, international orders require prepayment.

All sample residues and excess raw materials become the property of the FBRI unless a specific request is made for return.

To ensure faster fiber preparation and testing, please follow these guidelines:

Sample Preparation: Do not use staples or plastic sacks. If sacks need to be closed by folding over; do not use rubber bands.

Sample Identification: Limit identification codes to ten digits and use numerals only (no letters, symbols, dots or dashes). If possible, use bar codes.

DATA DELIVERY CHARGES:

Fax copies of test data (per page) $1.00

Email copies of test data Free
FIXED-PRICE TESTS

**HIGH VOLUME INSTRUMENT (HVI) TESTING**
HVI testing using Uster Technologies 1000 systems, providing the average of micronaire, length, uniformity, strength, elongation, color and trash.

USDA test, per sample  
Replications include 2 for color, 1 for micronaire, 2 for length and 2 for strength.  
$2.80

Higher accuracy test, per sample  
Replications include 2 for color, 2 for micronaire, 4 for length and 4 for strength.  
$3.50

Breeders’ test, per sample  
Replications include 4 for color, 4 for micronaire, 10 for length and 10 for strength.  
$7.50

**AFIS (ADVANCED FIBER INFORMATION SYSTEM) TESTING**
Provides length, maturity ratio, fineness, neps, and trash.

3 replications  
(20 grams of lint required)  
$15.00

5 replications  
(30 grams of lint required)  
$20.00
OTHER TESTS (Call for quote.)

FOREIGN MATTER CONTENT OF COTTON – ASTM D 2812
Provides non-lint content based on MTM separation of lint and foreign matter.

ROVING AND YARN TESTING

CV% and Imperfections (Uster 5 Evenness Tester)

Single-Strand Yarn Strength (Textechno Statimat DS Tester) – ASTM D 2256-a
Provides tenacity, tenacity CV%, elongation, and yarn size.

100 breaks *(5,000 yards required)*

200 breaks *(8,000 yards required)*

- **Yarn Strength by Skein Method – ASTM D 1578**
  Provides break factor and yarn number on ten 120-yard skeins.
  *(5,000 yards required)*

- **Yarn Number**
  Based on average of 10 skeins.
  *(5,000 yards required)*

FABRIC TESTING

NOTE: Extraordinary preparation time is charged at a rate of $42.00/hour.

- **Abrasion (Martindale) – ASTM D 4966**
  *(1 yard of fabric required)*

- **Colorfastness (Atlas, accelerated) – AATCC 61**

- **Durable Press Rating – AATCC 124**
  *(1 yard of fabric required)*

- **Fabric Strength Tests (1 yard of fabric required)**
  
  Grab Strength – ASTM D 5034

  Strip Strength – ASTM D 5035

  Ball Burst Strength – ASTM D 3787

  Digital Elmendorf Tear Strength – ASTM D 1424
• **Fabric Count** (*1 yard of fabric required*)
  
  Ends & Picks or Courses & Wales – ASTM D 3775

• **Pilling**
  
  Tumble Method – ASTM D 3512 (*1/2 yard of fabric required*)
  
  Martindale – ASTM D 4970 (*1/2 yard of fabric required*)

• **Shrinkage**
  
  Home Laundering – AATCC 135 (*2 yards of fabric required.*)
  
  Quickwash – AATCC 187 (*1 yard of fabric required.*)

• **Weight per square yard** – ASTM D 3776 (*1 yard of fabric required*)

• **Yarn Number from Fabric** – ASTM D 1059 (*1 yard of fabric required*)

  Spinning Process – Ring or Rotor Identification
SHORT STAPLE SYSTEMS

Ring Spinning – Carded Yarns
   (Minimum of 30 pounds of fiber)

Ring Spinning – Combed Yarn
   (Minimum of 40 pounds of fiber)

Ring Spinning – Carded & Combed Yarn
   (Minimum of 50 pounds of fiber)

Rotor Spinning
   (Minimum of 30 pounds of fiber)
PERSONNEL CONTACT INFORMATION

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