

STTC TEST LABORATORY



(Previously The Scottish Textile Technology Centre)

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**Note that the STTC TEST LABORATORY operates procedures that comply with the requirements of :**  
***International Standard BSENISO/IEC 17025 - General requirements for the competence of testing and calibration laboratories.***

## **PRICE LIST**

**for**

**THE TESTING OF :**  
**TEXTILES, NONWOVEN TEXTILES,**  
**MEDICAL TEXTILES and OTHER MATERIALS**

**plus**

**CONSULTANCY SERVICES.**

**2020 ISSUE.**

**NOTE : MINIMUM COST TO A TEST REPORT IS £30.00**

**THE STTC TEST LABORATORY PRICES ARE CURRENTLY VAT-FREE.**

# **STTC TEST LABORATORY**

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## ***STTC TEST LABORATORY***

### Colour Fastness Tests.

#### Colour Fastness to BSENISO 105 (BS 1006 / BSEN 20105).

| <b>Test Description</b>                                                                                                                                                                   | <b>Test Number</b>                                    | <b>Cost Per sample</b>                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|
| Colour Fastness to Artificial Light – Xenon Arc.<br>To BW standards 1 to 4<br>To BW standard 5<br>To BW standard 6<br>To BW standard 7<br>To BW standard 8<br>Additional colours / fabric | BSENISO 105 – B02 : 2014                              | £15.00<br>£20.00<br>£25.00<br>£30.00<br>£50.00<br>£4.00 |
| Colour Fastness to Artificial Light – Xenon Arc.                                                                                                                                          | AATCC Method 16E                                      | £55.00                                                  |
| Colour Fastness to Domestic & Commercial Laundering using ECE detergent.                                                                                                                  | BSENISO 105 – C06 : 2010<br>C06 A,B, & C<br>C06 D & E | £15.00<br>£15.00                                        |
| Colour Fastness To Washing & Laundering.                                                                                                                                                  | BS 1006 : 1990<br>C01 to C03<br>C04 & C05             | £13.00<br>£15.00                                        |
| Colour Fastness to Domestic Laundering – Oxidative Bleach                                                                                                                                 | BSENISO 105 – C09 : 2003                              | £22.00                                                  |
| Colour Fastness to Water.                                                                                                                                                                 | BSENISO 105 – E01 : 2013                              | £15.00                                                  |
| Colour Fastness to Sea Water                                                                                                                                                              | BSENISO 105 – E02 : 2013                              | £15.00                                                  |
| Colour Fastness to Chlorinated Water.                                                                                                                                                     | BSENISO 105 – E03 : 2010                              | £20.00                                                  |
| Colour Fastness to Perspiration (acid & alkaline)                                                                                                                                         | BSENISO 105 – E04 : 2013                              | £15.00 (acid)<br>£15.00 (alkaline)                      |
| Colour Fastness to Water Spotting                                                                                                                                                         | BSENISO 105 – E07 : 2010                              | £15.00                                                  |
| Colour Fastness to Rubbing                                                                                                                                                                | BSENISO 105 – X12 : 2016<br>(AATCC Method 8)          | £10.00 (wet)<br>£10.00 (dry)                            |
| Colour Fastness to Dry Cleaning.                                                                                                                                                          | BSENISO 105 – D01 : 2010<br>(AATCC Method 132)        | £30.00                                                  |

**STTC TEST LABORATORY****Physical Tests (fabric).**

| <b>Test Description</b>                                                  | <b>Test Number</b>                                          | <b>Cost Per sample</b>                                          |
|--------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|
| Fabric Tensile Strength (Strip method)                                   | BSENISO 13934-1 : 2013                                      | £15.00<br>(one direction)<br>£25.00<br>(both directions)        |
| Fabric Tensile Strength (Grab method)                                    | BSENISO 13934-2 : 2014<br>(ASTM D-5034)                     | £25.00                                                          |
| Fabric Seaming Properties (strength / slippage of woven garment seams)   | BS 3320 : 1988 /<br>BSENISO 13936-1 : 2004                  | £25.00                                                          |
| Fabric Seaming Properties (force to seam rupture using the strip method) | BSENISO 13935-1 : 2014                                      | £25.00                                                          |
| Fabric Seaming Properties (force to seam rupture using the grab method)  | BSENISO 13935-2 : 2014                                      | £25.00                                                          |
| Fabric Tear Strength (wing-rip method)                                   | BS 4303 : 1968                                              | £25.00                                                          |
| Fabric Tear Strength (Elmendorf method)                                  | BSENISO 13937-1 : 2000<br>(ASTM D1424 : 1996)               | £22.00                                                          |
| Resistance to Abrasion (Martindale method)                               | BS 5690 : 1991 /<br>BSENISO 12947-2 : 2016<br>(ASTM D-4966) | £20.00<br>(up to 20K revs)<br><br>£5.00<br>(each extra 5K revs) |
| Resistance to Pilling (Modified Martindale method).                      | BSENISO 12945-2 : 2000                                      | £25.00                                                          |
| Resistance to Pilling (ICI pilling tester).                              | BS 5811 : 1986 /<br>BSENISO 12945-1 : 2001                  | £25.00 +<br>£10.00 for prior wash<br>£20.00 for dry clean       |
| Random Tumbler Pilling test                                              | ASTM D-3512                                                 | £32.00                                                          |
| Bursting Strength of Knitted Fabrics.                                    | BS 4768 : 1972 /<br>BSENISO13938-2 : 1999                   | £16.00                                                          |
| Fabric Crease Recovery.                                                  | BSEN 22313 : 2014                                           | £25.00                                                          |
| Residual Extension of Stretch Fabrics.                                   | BS 4952 : 1992 or<br>Retailer methods.                      | £25.00                                                          |
| Fabric weight.                                                           | BS 2471 : 2005<br>(ASTM D3776)                              | £15.00                                                          |
| Courses & wales (threads / unit length)                                  | BS 5441 : 1988 /<br>BSEN 1049-2 : 1994                      | £20.00                                                          |

**STTC TEST LABORATORY****Physical Tests (yarns).**

| <b>Test Description</b>                                                                     | <b>Test Number</b>                        | <b>Cost Per sample</b>     |
|---------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
| Yarn Tensile Strength etc<br>(20 tests)<br>(30 tests)                                       | BSENISO 2062 : 2009                       | £24.00<br>£35.00           |
| Yarn Twist Test (20 tests)<br>Singles twist.<br>Folded twist.<br>Both.                      | BSENISO 2061 : 2015                       | £32.00<br>£20.00<br>£40.00 |
| Yarn Linear Density<br>(yarn count).<br>From hanks or packages :<br>From knitted or woven : | BSENISO 2060 : 1995<br><br>BS 2865 : 1984 | £15.00<br>£18.00           |
| Yarn Appearance.                                                                            | ASTM D2255-75                             | £17.00                     |
| % Crimp of yarn removed from fabrics.                                                       | BS 2863 : 1984<br>(withdrawn test method) | £28.00                     |
| Twist of yarn removed from fabrics.                                                         | BS 2864 : 1984<br>(withdrawn test method) | £28.00                     |

*Contact us for discounts on volume or regular work,  
or if you have a requirement for a test that is not listed.*

## ***STTC TEST LABORATORY***

### Fabric - Dimensional Stability Tests.

| <b>Test Description</b>                                   | <b>Test Number</b>                                                                                                          | <b>Cost Per sample</b>                        |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Dimensional Stability to Washing.                         | BSENISO 5077 : 2000 (2008) /<br>ISO 5077 : 2007<br>BSENISO 3759 : 2011<br>BSEN 26330 : 1999 /<br>BSENISO 6330 : 2012 (2019) | £25.00                                        |
| Spirality of weft knitted fabrics after washing & drying. | % Method<br>or retailer methods.                                                                                            | £20.00 on its own<br>or FOC if part of above. |
| Dimensional Stability to Steam (WIRA test).               | BS 4323 :1979 (1995)                                                                                                        | £20.00                                        |
| Dimensional Stability to Dry Cleaning.                    | BSENISO 3175<br>Parts 1 & 2 : 2018<br>(AATCC Method 158)                                                                    | £25.00                                        |
| Durability Wash Tests.                                    | Retailer methods                                                                                                            | From £20.00                                   |

*Contact us for discounts on volume or regular work,  
or if you have a requirement for a test that is not listed.*

## **STTC TEST LABORATORY**

### Fabric - Tests for Water Repellency & Air Permeability.

| <b>Test Description</b>                                                                             | <b>Test Number</b>                                                | <b>Cost Per sample</b> |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------|
| Resistance of Fabric to Surface Wetting.<br>(Spray Rating Test).                                    | BSENISO 4920 : 2012                                               | £20.00                 |
| Resistance of Fabrics to an Artificial Shower<br>(WIRA Shower Test).                                | BS 5066 : 1974 (1993)                                             | £30.00                 |
| Resistance of Fabrics to Penetration by Water.<br>(Hydrostatic Head Test).                          | BSENISO 811 : 2018                                                | £30.00                 |
| Resistance of Fabrics to Water Penetration & Surface Wetting.<br>(Hydrostatic Head & Spray Rating). | BS 3424 Part 26 : 1990                                            | £50.00                 |
| Resistance of Fabrics to Surface Wetting.<br>(Alcohol / water Spotting Test).                       | STTC In-house test # IHM-M4 or retailer tests.                    | £20.00                 |
| Water Resistance – Impact Penetration Test.                                                         | AATCC 42 – 2000<br>(STTC In-house test method # IHM-M25)          | £75.00                 |
| Non-woven textiles - % liquid run-off / % liquid retention                                          | BSISO 9073-11 : 2002 - Test # 1<br>(STTC In-house test # IHM-M18) | £45.00                 |
| Air Permeability                                                                                    | BSENISO 9237 : 1995                                               | £45.00                 |
| Water Vapour Permeability                                                                           | BS 3424-34 : 1999<br>BS 7209 : 1990 Appendix B                    | £50.00<br>£61.00       |
| Liquid Absorptive Capacity                                                                          | BSENISO 9073-6 : 2003<br>(STTC IHM-M29)                           | £50.00                 |

*Contact us for discounts on volume or regular work,  
or if you have a requirement for a test that is not listed.*

## **STTC TEST LABORATORY**

### Chemical Tests.

| <b>Test Description</b>                                                                                             | <b>Test Number</b>                                                                                                                       | <b>Cost Per sample</b>                    |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Fibre Composition Analysis (quantitative).                                                                          | BS 4407 : 1988 (1995) /<br>EC Fibre Analysis Directives<br>96/73/EC & Amd 2006/2/EC +<br>Test Method Annexes 1 & 2<br>(AATCC method 20A) | £25.00<br>per fibre found                 |
| Fibre Composition Analysis of Cashmere                                                                              | Microscopic<br>Determination                                                                                                             | £80.00<br>(single fibre type)             |
| Qualitative Fibre Analysis (identification of fibre type only).                                                     | STTC In-house methods.                                                                                                                   | £20.00<br>per fibre found.                |
| Measurement of Chemical Damage to Cotton (Cuprammonium Fluidity).                                                   | Shirley quick method.<br>(accurate to 1 Rhes unit against<br>BS 2610 : 1978)                                                             | £40.00 / single test on each<br>specimen. |
| Chemical damage to linen (degree of polymerisation using Iron (111) tartaric acid-sodium complex to dissolve linen) | DIN 54270<br><br>(subcontracted test)                                                                                                    | £150.00 /sample                           |
| Determination of oils, fats & waxes in wool.                                                                        | BS 3582 : 1981 (1995)<br>(Withdrawn test)                                                                                                | £25.00                                    |
| pH of Textiles from aqueous extracts.                                                                               | BS 3266 : 1981 /<br>BSEN 1413 : 1998<br>(Withdrawn test)                                                                                 | £20.00                                    |
| Moisture Content of Textiles.                                                                                       | In house method                                                                                                                          | £15.00                                    |
| Phenolic Yellowing of Whites.                                                                                       | Courtaulds Methods                                                                                                                       | £25.00                                    |
| Formaldehyde content :<br>Free & hydrolysed<br>Released                                                             | BSENISO 14184 -1 : 2011<br>BSENISO 14184 -2 : 2011<br>(subcontracted tests)                                                              | £40.00<br>£40.00                          |
| Scanning Electron Microscopy (SEM)                                                                                  | (subcontracted tests)                                                                                                                    | POA                                       |
| Heavy metal detection in polymer fibres by XRF (X-ray Fluorescence)                                                 | Detection of :<br>Lead, Cadmium, Mercury, Tin,<br>Zink, Total Chromium, Bromine<br>(subcontracted tests)                                 | POA                                       |

*Note that prices for subcontracted tests are subject to alteration without notice.*

*Contact us for discounts on volume or regular work,  
or if you have a requirement for a test that is not listed, ie Flammability.*

# **STTC TEST LABORATORY**

## EN 13795-1 : 2019

### Performance Requirements for Non-woven Surgical Drapes, Gowns & Clean Air Suits.

#### STTC TEST LABORATORY – 2017 PRICE LIST FOR TESTING

| #                                        | Method ID #         | Test / Method name                                                                        | Price (GBP) | Sample size & min quantity |
|------------------------------------------|---------------------|-------------------------------------------------------------------------------------------|-------------|----------------------------|
| 1 *                                      | ISO 22612 : 2005    | Resistance to Microbial Penetration – Dry (less critical areas only).                     | £800.00     | 12 x (20cm x 20cm)         |
| 2 *                                      | EN ISO 22610 : 2006 | Resistance to Microbial Penetration – Wet (critical areas only)                           | £1100.00    | 5 x (25cm x 25cm)          |
| 3 *                                      | ENISO11737-1: 2018  | Cleanliness – Microbial<br><i>(NB. Test carried out on material before sterilisation)</i> | £274.00     | 3 x (20cm x 20cm)          |
| 4 *                                      | ISO 9073-10 : 2004  | Cleanliness – Particulate Matter / Linting                                                | £820.00     | 14 x (28.5cm x 22.0cm)     |
| Total cost per sample for tests 1 to 4 = |                     |                                                                                           | £2,994.00   |                            |

*Note :* Tests 1 to 4 (\*) are currently sub-contracted to another accredited testing laboratory. Prices indicated include a handling charge to cover the preparation of test forms, postage & results reporting etc. Prices quoted apply when correct number of pre-cut specimens in sterile packaging are supplied. If not, add £50.00 / sample / test (for specimen preparation in sterile conditions). Prices subject to alteration with exchange rates. Time for testing (tests 1 to 4 above) = 4 to 8 weeks depending on quantity.

The following tests Ø (5 to 10) will be carried out in-house at the STTC Test Laboratory. No surcharge added for sample preparation. Time for testing (tests 5 to 10) = 1 to 2 weeks depending on quantity.

|                                                                      |                        |                                                                                                                     |         |                                  |
|----------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------|---------|----------------------------------|
| 5                                                                    | EN 811 : 2018          | Resistance to Liquid Penetration – Hydrostatic Head Test (STTC IHM-M13)                                             | £50.00  | 5 x (17cm x 17cm)                |
| 6                                                                    | BSENISO 13938 : 2019   | Bursting Strength – Dry (STTC In-house test IHM-M14)                                                                | £45.00  | 10 x (20cm x 20cm)               |
| 7                                                                    | BSENISO 13938 : 2019   | Bursting Strength – Wet (STTC In-house test IHM-M15)                                                                | £50.00  | 10 x (20cm x 20cm)               |
| 8                                                                    | Ø EN 29073-3 : 1992    | Non-wovens – Tensile Strength – Dry (STTC In-house test IHM-M16)                                                    | £45.00  | 5 x MD & 5 x CD (all 6cm x 30cm) |
| 9                                                                    | Ø EN 29073-3 : 1992    | Non-wovens – Tensile Strength – Wet (STTC In-house test IHM-M17)                                                    | £50.00  | 5 x MD & 5 x CD (all 6cm x 30cm) |
| 10<br>or                                                             | Ø BSISO 9073-11 : 2002 | Liquid Control - % Run-off (STTC In-house test IHM-M18)                                                             | £50.00  | 5 x MD (14cm x 28cm)             |
| 11                                                                   | AATCC 42-2000          | Water Resistance – Impact Penetration test<br><i>(alternative to test 10 above)</i><br>(STTC In-house test IHM-M25) | £80.00  | 5 x (14cm x 28cm)                |
| Total cost per sample for tests 5 to 10 <i>(excluding test 11)</i> = |                        |                                                                                                                     | £290.00 |                                  |

- Notes :*
- If pre-prepared specimens are not supplied, provide 6-7 m<sup>2</sup> of raw material. If sending sterile packs of finished drapes or gowns, provide sufficient packs to allow the quantity indicated above to be obtained from unseamed areas. Also provide a further 1-2 m<sup>2</sup> before sterilisation for test 3 above.
  - Indicate the external side of the material to be tested, or describe how it can be identified.
  - For non-sterile samples, advise the type of sterilisation to be used, ie ETO or autoclave, with temp & time.
  - Indicate or describe how to identify the machine (MD) & cross (CD) directions.
  - For raw material : indicate type of product to be produced ie gown, drape etc, and performance claimed.
  - For finished products, indicate with sample or drawing the area(s) to be tested.
  - Pack all samples individually in sealed packages.

## ***STTC TEST LABORATORY***

### **TESTS TO MEET THE REQUIREMENTS OF BSENISO 11607-1 : 2020 & EN 868-2 : 2017 PACKAGING MATERIALS & SYSTEMS FOR MEDICAL DEVICES WHICH ARE TO BE STERILIZED.**

| # | Method ID # | Test method name | EN 868-2 sections applicable | Price and availability |
|---|-------------|------------------|------------------------------|------------------------|
|---|-------------|------------------|------------------------------|------------------------|

#### **EN 868-2 : 2017 Section 2. General tests 4.2.1.1 to 4.2.1.7 :-**

|   |                                      |                                                                   |                                     |                          |
|---|--------------------------------------|-------------------------------------------------------------------|-------------------------------------|--------------------------|
| 1 | ISO 536 : 2001<br>BSENISO 536 : 2012 | Paper & board – Determination of grammage (weight per unit area). | Section 4.2.1.2. of EN 868-2 : 2009 | £15.00<br>(STTCin-house) |
| 2 | BSISO 6588-2 : 2012                  | Paper & board – pH of aqueous extracts – Hot extraction method.   | Section 4.2.1.3. of EN 868-2 : 2009 | £25.00<br>(STTCin-house) |
| 3 | BS ISO 9197 : 2016                   | Paper & board – Water soluble chlorides.                          | Section 4.2.1.4. of EN 868-2 : 2009 | POA<br>(external *)      |
| 4 | ISO 9198 : 2001<br>BS 2924-3 : 1990  | Paper & board – Water soluble sulphates.                          | Section 4.2.1.5. of EN 868-2 : 2009 | POA<br>(external *)      |
| 5 | Annex B of EN 868-2 : 2017           | Method for the determination of fluorescent constituents.         | Section 4.2.1.6. of EN 868-2 : 2009 | POA<br>(external *)      |
| 6 | EN 868-2 : 2017<br>Annex C           | Method for the determination of drape.                            | Section 4.2.1.7. of EN 868-2 : 2009 | POA<br>(external *)      |

#### **EN 868-2 : 2017 Section 4.2.2.3. Tests for non-woven wrapping 4.2.2.3.1 to 4.2.2.3.7 :-**

|    |                                       |                                                                            |                                     |                              |
|----|---------------------------------------|----------------------------------------------------------------------------|-------------------------------------|------------------------------|
| 7  | ISO 1974 : 1990<br>ENISO 1974 : 2012  | Determination of Internal Tearing Resistance of Paper.                     | Section 4.2.2.3.1. of EN 868-2:2009 | £40.00<br>(In-house IHM-M19) |
| 8  | ENISO 2758 : 2014                     | Paper – Determination of Bursting Strength.                                | Section 4.2.2.3.2. of EN 868-2:2009 | £40.00<br>(In-house IHM-M20) |
| 9  | ISO 3689 : 1983                       | Paper – Determination of Bursting Strength after immersion in water        | Section 4.2.2.3.3. of EN 868-2:2009 | £50.00<br>(In-house IHM-M21) |
| 10 | EN 20811 : 1992                       | Resistance to Liquid Penetration – Hydrostatic Head test.                  | Section 4.2.2.3.5. of EN 868-2:2009 | £50.00<br>(In-house IHM-M13) |
| 11 | BSENISO 1924-2 : 2008                 | Paper & board – Determination of Tensile Strength (Dry).                   | Section 4.2.2.3.6. of EN 868-2:2009 | £40.00<br>(In-house IHM-M22) |
| 12 | ISO 3781 : 2011<br>(BS 2922-2 : 1984) | Paper & board – Determination of Tensile Strength after immersion in water | Section 4.2.2.3.7. of EN 868-2:2009 | £50.00<br>(In-house IHM-M23) |

#### **BSENISO 11607-1 : 2020 Microbial Penetration tests :**

|   |                          |                                                                  |                               |                         |
|---|--------------------------|------------------------------------------------------------------|-------------------------------|-------------------------|
| 1 | DIN 58953-6<br>Chapter 3 | Microbial Penetration under Humidity (wet) conditions.           | BSENISO 11607-1 : 2009 (2014) | £280.00<br>(external *) |
| 2 | DIN 58953-6<br>Chapter 4 | Microbial Penetration with Air Permeance (under dry) conditions. | BSENISO 11607-1 : 2009 (2014) | £300.00<br>(external *) |

\* External (subcontracted) tests, therefore price subject to change without notice.

## **STTC TEST LABORATORY**

**GENERAL NON-WOVEN TEXTILE TESTS**  
**+ SHEAR & PEEL TESTS FOR MEDICAL ADHESIVES**  
**& ACCELERATED AGEING TESTS.**

| Test description | Test number | Cost per sample |
|------------------|-------------|-----------------|
|------------------|-------------|-----------------|

**GENERAL NON-WOVEN TEXTILE TESTS :**

|                                                                                                                     |                                                                                         |        |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------|
| Absorbent Materials – Test for Liquid Absorbency / Liquid Spread (area) with time.                                  | STTC In-house test # IHM-M1 based on EDANA 152.1-02 (liquid run-off) test.              | £50.00 |
| Medical fabrics – Test for Resistance to Penetration by Surgical Instruments (of nominal 20mm diameter).            | STTC In-house test # IHM-M2 using an Instron crt Tensile tester in compression mode.    | £35.00 |
| PE films & repellent materials – Measurement of “Pin-holes” in microns.                                             | STTC In-house test # IHM-M3 for measuring the size of “pin-holes” by microscopic means. | £70.00 |
| Non-woven Repellent materials – Test for Repellency to Low Surface Tension Liquids (alcohol / water spotting test). | STTC In-house test # IHM-M4 based on EN 868-2 : 2017 Annex A & Next plc test # TM32     | £25.00 |
| Test to Determine the rate of Horizontal Wicking (migration) of aqueous solutions through layers of Medical Drape.  | STTC In-house test # IHM-M5.                                                            | £50.00 |
| Modified Matindale Abrasion test for Non-woven Medical Drape material – Dry test.                                   | STTC In-house test # IHM-M6 based on modified test BSENISO 12947-2 : 2016               | £30.00 |
| Modified Matindale Abrasion test for Non-woven Medical Drape material – Wet test.                                   | STTC In-house test # IHM-M7 based on modified test BSENISO 12947-2 : 2016               | £35.00 |
| Modified Wing-rip Tear Resistance test. Tear propagated from a 30mm circular hole.                                  | STTC In-house test # IHM-M12 based on modified test BS 4303 : 1968                      | £30.00 |
| Non-woven textiles – Pt 9 – Determination of Drape.                                                                 | BSENISO 9073-9 : 2008                                                                   | £66.00 |

**SHEAR & PEEL TESTS FOR MEDICAL ADHESIVES :**

|                                  |                                                                     |        |
|----------------------------------|---------------------------------------------------------------------|--------|
| 90° or 180° Peel Adhesion tests. | STTC In-house tests IHM-M8 & M9 based on ASTM test D3330 (2010)     | £50.00 |
| Shear Loading test.              | STTC In-house test method # IHM-M10 based on ASTM test D6463 (2012) | £50.00 |

**RAISED TEMPERATURE ACCELERATED AGEING TEST :**

|                                                                                                                                                                                         |                                                                                                             |                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| “Raised Temperature Accelerated Ageing tests” to rapidly determine the effects, if any, due to the passage of time on the integrity of packaging and the properties of products within. | STTC In-house test method # IHM-M11 based on ASTM test F 1980 – 16 (2016) or any other customer conditions. | Typical price :<br>£500.00 / sample<br>for 4.6 actual months @ 60.C<br>≡ (5 years) simulated ageing. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|

## **STTC TEST LABORATORY**

### NON-WOVEN MEDICAL TEXTILE TESTS - contd

| Test Description | Test Number | Cost Per sample |
|------------------|-------------|-----------------|
|------------------|-------------|-----------------|

### **SURGICAL GAUZE – PERFORMANCE REQUIREMENT TESTS :**

|                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Non-active Medical Devices – Performance requirements &amp; test methods for Absorbent Cotton Gauze and Absorbent Cotton / Viscose Gauze.</p> | <p style="text-align: center;"><b>BSEN 14079 : 2003</b></p> <p>15 tests covering :-</p> <p>Fibre identification.<br/>Acidity &amp; alkalinity.<br/>Foreign fibres.<br/>Fluorescence.<br/>Threads per square centimetre.<br/>Mass per square metre.<br/>Minimum breaking load.<br/>Sinking time.<br/>Ether soluble substances.<br/>Surface active substances.<br/>Water soluble substances.<br/>Starch &amp; dextrin.<br/>Extractable colouring matter.<br/>Weight loss on drying.<br/>* Sulphated ash.</p> | <p>Total cost for complete set of tests = £550.00 / sample.</p> <p>(All tests carried out in-house except test *)</p> <p>Note : Submit at least 4 packs of 10 (total 40) 10 x 10 cm sterile gauze swabs / sample.</p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## **STTC TEST LABORATORY**

### NON-WOVEN MEDICAL TEXTILE TESTS - contd

#### **NON-WOVEN SURGICAL SWABS & COMPRESSES – PERFORMANCE REQUIREMENT TESTS :**

|                                                                                                                          |                                                  |                         |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------|
| Non-active Medical Devices –<br>Performance requirements & test<br>methods for Non-woven Surgical<br>Swabs & Compresses. | <b>EN 1644-1 : 1997 and<br/>EN 1644-2 : 2000</b> |                         |
|                                                                                                                          | 11 tests covering :-                             | Price / test / sample : |
|                                                                                                                          | EN 1644-1 Annex B                                | £127.00                 |
|                                                                                                                          | EN 1644-1 Annex C                                | £145.00                 |
|                                                                                                                          | EN 1644-1 Annex D                                | £68.00                  |
|                                                                                                                          | EN 1644-1 Annex E                                | £68.00                  |
|                                                                                                                          | EN 1644-1 Annex F                                | £38.00                  |
|                                                                                                                          | EN 1644-1 Annex G                                | £102.00                 |
|                                                                                                                          | EN 1644-2 Annex C                                | £130.00                 |
|                                                                                                                          | EN 1644-2 Annex D                                | £118.00                 |
|                                                                                                                          | EN 1644-2 Annex E                                | £36.00                  |
| EN 1644-2 Annex F                                                                                                        | £560.00                                          |                         |
| EN 1644-2 Annex G                                                                                                        | £643.00                                          |                         |
| Report fee                                                                                                               | £50.00                                           |                         |
| <b>Total price / sample =</b>                                                                                            | <b>£2085.00</b>                                  |                         |

#### **PRESSURE PROOF / BURSTING & VOLUMETRIC EXPANSION TESTS ON PLASTIC TUBING / MANOMETER LINES ETC.**

|                                                                                                         |                                                                                                                                                             |                                            |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| Pressure proof / Bursting &<br>Volumetric expansion tests on<br>Plastic Tubing & Manometer lines<br>etc | BS 5173 Pt 102.1 : 1991<br>Hydrostatic tests on plastic hoses.<br><br>BS 5173 Pt 102.4 : 1990<br>Determination of volumetric<br>expansion of plastic hoses. | ~ £200.00 / sample<br><br>(POA to confirm) |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|

Note : All above tests sub-contracted to an accredited laboratory.  
Prices subject to change with exchange rates without notice.

# **STTC TEST LABORATORY**

## NON-WOVEN MEDICAL TEXTILE TESTS - contd

| Test Description | Test Number | Cost Per sample |
|------------------|-------------|-----------------|
|------------------|-------------|-----------------|

### **US ANSI / AAMI PB70 : 2003 Liquid barrier performance and classification of protective apparel and drapes for use in health care facilities.**

|                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>US Liquid barrier performance and classification of protective apparel and drapes for use in health care facilities.</p> | <p style="text-align: center;"><b>ANSI / AAMI PB70 : 2003</b></p> <p>Tests for Barrier Levels 1 to 4 :</p> <ol style="list-style-type: none"> <li>1. <b>For Gowns &amp; Drapes :</b><br/>AATCC Test 42 : 2000<br/>Water resistance – Impact penetration test.<br/>(STTC In-house test IHM-M25)</li> <li>2. <b>For Gowns &amp; Drapes :</b><br/>AATCC Test 127 : 1998<br/>Water resistance – Hydrostatic head test.<br/>(STTC In-house test IHM-M26)</li> <li>3. <b>For Drapes only :</b><br/>ASTM Test F1670 : 2008 (2014)<br/>Resistance to penetration by synthetic blood.</li> <li>4. <b>For Gowns only :</b><br/>ASTM Test F1671 : 2013<br/>Resistance to penetration by blood-borne pathogens.</li> </ol> | <p>£225.00 / sample</p> <p>£50.00 / sample</p> <p>£300.00 / sample *</p> <p>£892.00 / sample *</p> <p>Total price for all 3 tests for :<br/> <b>Drapes = £705.00</b><br/> <b>Gowns = £1167.00</b><br/> / sample.</p> |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* = Subcontracted test, therefore price subject to change with exchange rates.  
Prices include sub-contracted lab's test report.

# **STTC TEST LABORATORY**

## MEDICAL TEXTILE TESTS - contd

| Test Description | Test Number | Cost Per sample |
|------------------|-------------|-----------------|
|------------------|-------------|-----------------|

### **EN ISO 10993-10 : 2013 Biological evaluation of medical devices – Tests for irritation and delayed type hypersensitivity.**

|                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Tests to comply with Standard EN ISO 10993-10 : 2013 Biological evaluation of medical devices – Tests for irritation and delayed type hypersensitivity, ie Tests to show that medical products (adhesive tapes etc) are hypoallergenic.</p> | <p style="text-align: center;"><b>EN ISO 10993-10 : 2013</b></p> <p>Tests to show that medical products are hypoallergenic.</p> <p style="text-align: center;">3 tests required :-</p> <ol style="list-style-type: none"> <li>1. Cytotoxicity test according to EN ISO 10993-5 using polar Extraction (test duration 1 week).</li> <li>2. Intracutaneous reactivity / Irritation test according to EN ISO 10993-10 using polar &amp; apolar extraction (test duration 2 weeks).</li> <li>3. Sensitization test according to EN ISO 10993-10 using polar &amp; apolar extraction (test duration 8 weeks).</li> </ol> | <p>£905.00 / sample *</p> <p>Tests 2 &amp; 3 are no longer available through the STTC. However, details of a lab who can carry out these tests can be given, but this lab must be dealt with directly.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### **Tests to identify species of fungal growth found of Medical Textiles and other substrates.**

|                                                                                                                      |                                                                                                                   |                           |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------|
| <p>Tests to identify to species level any moulds or fungal growth found on medical textiles or other substrates.</p> | <p>Various tests including SEM and chemical staining after isolation of predominant growth by incubation etc.</p> | <p>£450.00 / sample *</p> |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------|

\* = subcontracted test, therefore price subject to change with exchange rates.

## **STTC TEST LABORATORY**

### MEDICAL TEXTILE TESTS - contd

| Test Description | Test Number | Cost Per sample |
|------------------|-------------|-----------------|
|------------------|-------------|-----------------|

#### **PERMEABILITY TESTS FOR PLASTIC FILM & SHEETING :**

|                                                                                                                                   |                                             |                                 |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------|
| Standard Test Method for <b>Water Vapour Transmission Rate</b> through Plastic Film & Sheeting using a Modulated Infrared Sensor. | ASTM F1249 – 13<br>@<br>38.C & 100% RH      | £480.00<br>+<br>£120.00 admin * |
| Standard Test Method for <b>Oxygen Gas Transmission Rate</b> through Plastic Film & Sheeting using a Coulometric Sensor.          | ASTM D3985 – 05 (2010)<br>@<br>23.C & 0% RH | £480.00<br>+<br>£120.00 admin * |

#### **CYTOTOXICITY TESTS FOR MEDICAL DEVICES :**

|                                                                                         |                    |                                              |
|-----------------------------------------------------------------------------------------|--------------------|----------------------------------------------|
| Biological evaluation of medical devices – Part 5 :<br>Tests for in vitro cytotoxicity. | ISO 10993-5 : 2009 | £905.00 / sample<br><br>(subcontracted test) |
|-----------------------------------------------------------------------------------------|--------------------|----------------------------------------------|

#### **TESTS ON PAPER :**

|                                     |                                              |                                               |
|-------------------------------------|----------------------------------------------|-----------------------------------------------|
| Paper thickness test.               | BSEN 20534 : 1994<br>(withdrawn test method) | £250.00 / sample<br><br>(subcontracted tests) |
| Paper smoothness test<br>(Bendtsen) | BS 4420 : 1995<br>(withdrawn test method)    |                                               |

\* = Sub-contracted lab's admin costs.

All tests sub-contracted to accredited EU labs ∴ prices subject to change with exchange rates.

## **STTC TEST LABORATORY**

### NON-WOVEN TEXTILE TESTS - contd

| Test<br>Description | Test<br>Number | Cost<br>Per sample |
|---------------------|----------------|--------------------|
|---------------------|----------------|--------------------|

### **PERFORMANCE REQUIREMENTS & TESTS FOR PROTECTIVE CLOTHING AGAINST INFECTIVE AGENTS :**

|                                            |                                                                                  |                                        |
|--------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------|
|                                            | <b>BS EN 14126 : 2003</b>                                                        |                                        |
|                                            | Protective clothing – Performance requirements & tests against infective agents. |                                        |
|                                            | 5 tests required :                                                               |                                        |
| Resistance to Blood.                       | ISO 16603 : 2004                                                                 | £162.00 / sample.                      |
| Resistance to Bacteriophage.               | ISO 16604 : 2004                                                                 | £690.00 / sample.                      |
| Resistance to Microbial Penetration – Wet. | ISO 22610 : 2006                                                                 | £782.00 / sample.                      |
| Resistance to Contaminated Aerosol.        | ISO 22611 : 2003                                                                 | £430.00 / sample.                      |
| Resistance to Microbial Penetration – Dry. | ISO 22612 : 2005                                                                 | £565.00 / sample.                      |
|                                            |                                                                                  | Extra costs =                          |
|                                            |                                                                                  | Test report £37.00                     |
|                                            |                                                                                  | Total cost for all tests<br>= £2665.00 |

All tests sub-contracted to an accredited EU lab ∴ prices subject to change with exchange rates.

## **STTC TEST LABORATORY**

### NON-WOVEN TEXTILE TESTS - contd

| Test Description | Test Number | Cost Per sample |
|------------------|-------------|-----------------|
|------------------|-------------|-----------------|

#### **BSEN 14683 : 2014 SURGICAL FACE MASK ASSESSMENTS :**

| Test                                                                                                                                                 | Standard                                    | Price                                 | Sample amount & size                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------|-----------------------------------------------|
| <b>Medical Face Masks - Microbial cleanliness (bioburden – population of microorganisms on product)</b><br><br>On 5 masks (min number of specimens). | <b>BSEN 14683 : 2014 – § 5.2.5</b>          | £429.00<br>per sample<br>(see note 1) | Minimum 5 masks<br>(10 x 10 cm each)          |
| <b>Differential Pressure.</b><br><br>On 5 masks (min number of specimens).                                                                           | <b>BSEN 14683 : 2014 – Annex C</b>          | £100.00<br>per sample<br>(see note 2) | Minimum 5 masks<br>(5 x 2.5 cm diameter each) |
| <b>Surgical masks - Splash tests at one pressure (16 kPa)</b><br><br>On 32 masks (min number of specimens).                                          | <b>ISO 22609 : 2004</b>                     | £208.00<br>per sample<br>(see note 3) | 32 masks ∅                                    |
| <b>Surgical masks – BEF – Bacterial Filtration Efficiency</b><br>On 5 masks (min number of specimens).                                               | <b>BSEN 14683 : 2019 – Annex B</b>          | £650.00<br>per sample<br>(see note 4) | Minimum 10 masks<br>(10 x 10 cm each)         |
|                                                                                                                                                      | <b>Report handling cost / testing order</b> | £38.00                                |                                               |
| <b>Total cost / sample = £1425.00</b>                                                                                                                |                                             |                                       |                                               |

Notes : (1, 2, 4) **Price for the assessment of 10 masks as required by EN 14683 : 2014.**  
 If another number of masks has to be tested, ask for a special quote and specify number.

(3) **Price for the assessment of 32 masks (see \*). Test carried out at one pressure only as required by EN14683, ie 16 kPa**

\* = A sufficient number of specimens should be tested to achieve an AQL of 4.0 %. A single sampling plan providing an AQL of 4.0 % would require 32 specimens.

∅ = It's the customers responsibility to determine the appropriate sample size based on AQL.

**Note : We normally ask that 100 masks / sample are supplied for the above tests.**

## **STTC TEST LABORATORY**

### 2020 PRICES

#### AUTOMOTIVE FABRIC TESTS FOR JAGUAR LAND ROVER : Tests to meet JLR Material Performance Standard STJLR.52.5362 for Heavy Duty Fabrics.

| Test # | TEST DETAILS                                                                                                                                 | Qty                 | Unit price (£)               |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|
| 1      | TPJLR.52.001 Martindale Abrasion test to 30K cycles                                                                                          | 1                   | £30.00                       |
| 2      | TPJLR.52.352 Heat ageing test (500 hours @ 100.C)                                                                                            | 1                   | £150.00                      |
| 3      | TPJLR.52.351 Resistance to Humidity test (72 hours)                                                                                          | 1                   | £60.00                       |
| 4      | TPJLR.52.210 Cleanability / soiling test (4 reagents)                                                                                        | 1                   | £80.00                       |
| 5      | BSENISO 105 - X12 Colour fastness to rubbing (dry)                                                                                           | 1                   | £10.00                       |
| 6      | BSENISO 105 - X12 Colour fastness to rubbing (wet)                                                                                           | 1                   | £10.00                       |
| 7      | TPJLR.52.207 Migration staining test (24 hours @ 100.C)                                                                                      | 1                   | £50.00                       |
| 8      | BSENISO 105 - E04 Colour fastness to Perspiration (acid & alk).                                                                              | 1                   | £30.00                       |
| 9      | TPJLR.52.205 Amine staining test "B" (72 hours @ 90.C)                                                                                       | 1                   | £60.00                       |
| 10     | SAE J2412 : 2004 Resistance to Fading test (220 kJ/m2 140 hrs exposure) – Subcontracted test.                                                | 1                   | £1690.00<br>(1-10 samples)   |
| 11     | TPJLR.52.458 Assessment of Odour (16 hours @ 40.C)                                                                                           | 1                   | £50.00                       |
| 12     | TPJLR.52.302 Elongation & Tension set test                                                                                                   | 1                   | £40.00                       |
| 13     | TPJLR.52.058 180° Peel Bond Strength on :<br>a) Material as received.<br>b) Material after cleaning.<br>c) Material after heat ageing @ 90.C | 1<br>1<br>1         | £80.00<br>£120.00<br>£270.00 |
| 14     | BSENISO 5084 Assessment of Fabric Thickness                                                                                                  | 1                   | £70.00                       |
| 15     | BS 2471 (ASTM D3776) Assessment of Fabric Weight (g/m2)                                                                                      | 1                   | £15.00                       |
| 16     | FMVSS302 (ISO 3795) Flammability test (subcontracted test)                                                                                   | 1                   | £70.00                       |
| 17     | SAE J1756 Fogging tests                                                                                                                      | Photometric test    | 1                            |
|        |                                                                                                                                              | Gravimetric test    | 1                            |
|        |                                                                                                                                              | Subcontracted tests |                              |
| 18     | STTC Test Report                                                                                                                             | 1                   | £30.00                       |

|                                                                         |                  |
|-------------------------------------------------------------------------|------------------|
| <b>Total cost / sample (1<sup>st</sup> sample) =</b>                    | <b>£2,915.00</b> |
| <b>Total cost / sample (2<sup>nd</sup> to 10<sup>th</sup> sample) =</b> | <b>£1,255.00</b> |

| Test # | ADDITIONAL TEST DETAILS                                          | Qty | Unit price (£)   |
|--------|------------------------------------------------------------------|-----|------------------|
| 1      | VDA 230-206 Parts 1 & 3 Ziegler Stick-Slip behaviour (squeaking) | 1   | £250.00 / sample |

Document ref : STTC JLR Auto test prices 2020

## ***STTC TEST LABORATORY***

### Consultancy and Investigation work.

| <b>Test description</b>                                         | <b>Cost (£) per sample</b>                 |
|-----------------------------------------------------------------|--------------------------------------------|
| Fault Investigation<br>(for work carried out in the laboratory) | £50.00 per hour<br>+ cost of tests         |
| On-site Consultancy & Investigatory work.                       | £60.00 per hour<br>+ travel & subsistence. |

Contact Jim Hicks at the :

## ***STTC TEST LABORATORY***

*Unit B3/1/C, Wing 1, Trump House, 15, Edison Street, Hillington Park, Glasgow G52 4JW*

Lab mobile : 07974 545037    E-mail : [jim.hicks5@btinternet.com](mailto:jim.hicks5@btinternet.com)    Website : [www.sttctestlab.co.uk](http://www.sttctestlab.co.uk)

Contact Jim Hicks for further details, or if you have a requirement for a test that is not listed.

Note that flammability testing is listed in a separate supplement. Please phone for a copy.

*Also contact us for discounts on volume or regular work.*

# STTC TEST LABORATORY



(Previously The Scottish Textile Technology Centre)

Unit B3/1/C, Wing 1, Trump House, 15, Edison Street, Hillington Park, Glasgow G52 4JW

Lab mobile : 07974 545037

E-mail : [jim.hicks5@btinternet.com](mailto:jim.hicks5@btinternet.com)

Website : [www.stctesting.co.uk](http://www.stctesting.co.uk)

~~~~~ Laboratory Manager / Proprietor : Jim Hicks C.Col A.S.D.C. ~~~~~

Laboratory Testing of Traditional Textile Materials - SUBMISSION FORM

| Customer details : | | | | Sample details : | | | |
|--------------------|--|-------|--|----------------------------|--|--|--|
| Contact name : | | | | Fabric / yarn supplier : | | | |
| Company : | | | | Quality / design : | | | |
| Address : | | | | Stated fibre composition : | | | |
| Your order # | | | | Article description : | | | |
| Tel # | | Fax # | | Colours : | | | |
| E-mail address : | | | | Your ref codes : | | | |
| Signature : | | | | Retailer : | | | |
| | | | | Date of submission : | | | |

| Tests required : | Sample # | Tick box | |
|---|----------|----------|----|
| | | Yes | No |
| Colour fastness (BSENISO 105) : | | | |
| Washing – Test method C06 : @ C temperature | | | |
| Water – Test method E01 | | | |
| Rubbing – Test method X12 wet / dry / both (delete as required) | | | |
| Light – Test method B02 to ref std # (please state) | | | |
| Perspiration – Test E04 acid / alkaline (delete as required) | | | |
| Chlorinated water – Test method E03 | | | |
| Others : | | | |

| Dimensional stability tests : (Please give details, test ref etc) | Sample # | Yes | No |
|---|----------|-----|----|
| Dimensional stability to washing @ Temp + dry. | | | |
| Dimensional stability to dry cleaning. | | | |
| Others : | | | |

| Physical tests : (Please give details, test references etc) | Sample # | Yes | No |
|---|----------|-----|----|
| | | | |

| Chemical tests : (eg BS 4407 Fibre composition analysis) | Sample # | Yes | No |
|--|----------|-----|----|
| State fibre types : | | | |
| State expected blend ratio : | | | |
| State any known finishes present : | | | |
| Other tests : | | | |

| Service required : (Delete as required) | STTC Technician : | Date received : |
|---|-------------------|-----------------|
| Normal : | | |
| Rapid response service (20% surcharge applicable) | Job # allocated : | |
| Send test report by : POST / E-MAIL. Copies : | Customer # : | |