

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 022
---	-----------------------------------	---

Accreditation No: LAB 022

Awarded to

Textile testing international

The scope of accreditation is in accordance with the standard specifications outlined in the following page(s) of this document. The accredited scope shall be visible and legible in areas such as customer service, sample-receiving section etc and shall not mislead its users.

The accreditation was first time granted on **13-05-2006** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2005**.

The accreditation requires regular surveillance, and is valid until **11-05-2018**.

The decision of accreditation made by Pakistan National Accreditation Council implies that the organization has been found to fulfill the requirements for accreditation within the scope.

The organization however, itself is responsible for the results of performed measurements/tests.

PAKISTAN NATIONAL ACCREDITATION COUNCIL

21/07/2017

Date

-----sd-----

Director General

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 10/08/15 Rev. No: 07 LAB 022
---	-----------------------------------	---

Testing Laboratory.

Accreditation Scope of Textile Testing International, a division of “Total Testing Solutions Inc.”, 347-S, Quaid-e-Azam Industrial Estate, Kot Lakhpat, Lahore-54770.

Permanent laboratory premises

Materials/Products tested	Testing field (e.g. environmental testing or mechanical testing)	Types of test/ Properties measured	Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference
Textile Fabric / products	Physical	Dimensional changes after home laundering	AATCC 135:2015 AATCC 150:2012
			BS EN ISO 5077:2008 BS EN ISO 3759:2011 BS EN ISO 6330:2012
	Physical	Skewness changes / Garment twisting	AATCC 179 : 2012
	Physical	Colorfastness to Laundering; accelerated	AATCC 61 : 2013 ISO 105-C10 : 2006 ISO 105-C06 : 2010
	Physical	Colorfastness to Crocking	AATCC 8 : 2016 ISO 105-X12 : 2016
	Physical	Colorfastness to Light (Xenon Arc)	AATCC 16.3 : 2014 ISO 105-B02 : 2014
	Physical	Colorfastness to Perspiration	AATCC 15 : 2013 ISO 105-E04 : 2013
	Physical	Colorfastness to Water	AATCC 107 : 2013 ISO 105-E01 : 2013
	Physical	Mass per unit area	ASTM D3776/D3776M – 13 BS EN 12127 : 1998
	Physical	Water Repellency: Spray Test	AATCC 22 : 2014 BS EN ISO 4920 : 2012
	Physical	Oil Repellency: Hydrocarbon Resistance Test	AATCC 118 : 2013
	Physical	Soil Release: Oily stain release method	AATCC 130 : 2015

21/07/2017

-----sd-----

Date

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

Textile Fabric / Products	Physical	Appearance after home laundering	AATCC 143 : 2014 ISO 15487 : 2009
	Physical	Colorfastness to Dry Cleaning	AATCC 132 : 2013 ISO 105-D01 : 2010
	Physical	Colourfastness to Sodium Hypochlorite Bleach in Home Laundering	AATCC 188 : 2010
	Physical	Colorfastness to Non-Chlorine Bleach in Home Laundering	AATCC 172 : 2016
	Physical	Bow and Skew in Woven and Knitted Fabrics	ASTM D3882 – 12
	Physical	Determination of Spirality after laundering	ISO 16322-1 : 2005 ISO 16322-2 : 2005 ISO 16322-3 : 2005
	Physical	Absorbency of textiles	AATCC 79 : 2014
	Physical	Colorfastness to Water Spotting	AATCC 104 : 2014 ISO 105-E07 : 2010
	Physical	Colorfastness to Sea Water	AATCC 106 : 2013 ISO 105-E02 : 2013
	Physical	Colorfastness to Non Chlorine Bleach (Spot & Soaking)	AATCC / ASTM TS001
	Physical	Colorfastness to Chlorine Bleach (Spot Test)	AATCC / ASTM TS001
	Physical	Vertical Wicking	AATCC 197:2013
	Physical	Colorfastness to Water	ISO 11642 : 2012 (IULTCS/IUF 421)
	Physical	Colorfastness to Water Spotting	ISO 15700 : 1998 (IULTCS/IUF 420)
	Physical	Colorfastness to Washing	ISO 15702 : 1998 (IULTCS/IUF 435)
Physical	Colorfastness to Mild Washing	ISO 15703 : 1998 (IULTCS/IUF 423)	

21/07/2017

-----sd-----

Date

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

Textile Fabric / Products	Physical	Seam Slippage	ISO 13936-1:2004
	Physical	Seam Slippage	ISO 13936-2:2004
	Physical	Tear strength	BS EN ISO 13937-3:2000
	Physical	Small parts	ASTM F 963:2016
	Physical	Torque test	ASTM F 963:2016
	Physical	Tension test	ASTM F 963:2016
	Physical	Sharp edge	ASTM F 963:2016
	Physical	Sharp Point	ASTM F 963:2016
Leather Material / products	Physical	Colorfastness to Dry Cleaning	ISO 11643 : 2009 (IULTCS/IUF 434), SLF 434
	Physical	Colorfastness to Perspiration	ISO 11641 : 2012 (IULTCS/IUF 426)
	Physical	Colorfastness to Crocking	ISO 20433 : 2012 (IULTCS/IUF 452), SLF 452
	Physical	Abrasion Resistance	ISO 17704:2004 ISO 20344:2011
	Physical	Puncture Resistance	EN 388:2016
	Physical	Color Fastness to PVC migration	ISO 15701: IUF 442
	Physical	Water & Perspiration	STM 335
	Physical	Color Fastness to Light	STM 160, ISO 105-B02 : 2014
Textile Fabric / Products	Physical	Flammability of apparel & clothing textiles	16 CFR 1610 ASTM D1230 - 16

21/07/2017

-----sd-----

Date

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

Textile Fabric / Products	Physical	Pilling resistance (Random Tumble)	ASTM D3512/D3512M -16
	Physical	Pilling resistance (Martindale tester)	ASTM D4970/D4970M -16 ISO 12945-2 : 2000
	Physical	Bursting strength	ASTM D3786/D3786M -13 BS EN ISO 13938-1:1999
	Physical	Tensile strength	ASTM D5034 – 13 ASTM D5035 – 11 BS EN ISO 13934-1:2013 BS EN ISO 13934-2:2014
	Physical	Tear strength (Elmendorf)	ASTM D1424-13 BS EN ISO 13937-1:2000
	Physical	Abrasion Resistance - Martindale a. Colour Change b. Weight Loss c. Yarn Rupture d. Fuzziness & Pilling	ASTM D4966 – 16 BS EN ISO 12947-1:1998 BS EN ISO 12947-2:2016 BS EN ISO 12947-3:1998 BS EN ISO 12947-4:1998
	Physical	Warp & filling count (ends / picks)	ASTM D3775 – 12 BS EN 1049-2 : 1994 ISO 7211-2 : 1984
	Physical	Yarn number by skein method (Yarn count)	ASTM D1907/D1907M -12
	Physical	Twist in yarn (TPI)	ASTM D1422/D1422M-16
	Physical	Yarn strength	ASTM D2256/D2256M-15 ISO 2062 : 2009
	Physical	Pilling resistance (ICI Pilling Box)	BS EN ISO 12945-1:2001 EN ISO 12945-1 : 2000 ISO 12945-1 : 2000
	Physical	Stiffness of fabrics	ASTM D4032 - 16
	Physical	Tearing strength – Tongue (single rip)	ASTM D2261 - 13 ISO 13937-2 : 2000
	Physical	Stretch properties of woven fabric	ASTM D3107 - 15
	Physical	Yarn number – short length specimen	ASTM D1059 - 01

21/07/2017

-----sd-----

Date

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

	Physical	Failure in sewn seams	ASTM D1683/D1683M-17
	Physical	Color Fastness to Phenolic yellowing	ISO 105X-18
Child Safety Products	Physical	Small Parts	16 CFR 1501
	Physical	Torque Test	16 CFR 1500.50, 51, 53
	Physical	Tension Test	16 CFR 1500.50, 51, 53
	Physical	Sharp edge	16 CFR 1500.49
	Physical	Sharp Point	16 CFR 1500.48
Leather, Footwear & Gloves	Physical	Abrasion Resistance	BS EN 388:2016
	Physical	Tear Resistance	BS EN 388:2016
	Physical	Tensile Strength & extension	ISO 3376 : 2011 (IULTCS/IUP 6), SLP6
	Physical	Tear load (Double edge tear)	ISO 3377-2 : 2016 (IULTCS /IUP 8), SLP7
	Physical	Tear load (Single edge tear)	ISO 3377-1:2011 (IULTCS/IUP 40-1), SLP 40
	Physical	Glove Sizing	BS EN 420:2003
	Physical	Dexterity	BS EN 420:2003
	Physical	Thickness	ISO 2589 : 2016 (IULTCS/IUP 4), SLP 4
	Physical	Out Sole Flexing	ISO 17707:2005 ISO 20344:2011
	Physical	Whole Shoe Flexing	STM 92
	Physical	Shoe Peel Off Tester	SATRA 404 BS 5131
	Physical	Din Abrasion of outsole	ISO 4649:2010
	Physical	Toe Impact Test	EN ISO 20344:2011
	Physical	Leather Bursting	ISO 3379:2015

21/07/2017

-----sd-----

Date

Director



**ACCREDITATION
DOCUMENT**

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

Leather & Footwear	Physical	Bally flexing	ISO 5402-1:2017 IUP 20 SATRA-TM-55
	Physical	Color Fastness to Rubbing	ISO 11640:2012 STM 167
	Physical	Softness Test	ISO 17235:2015 IUP 36
	Physical	Vamp Flex, Resistance to Creasing & Cracking	ISO 5402-2:2015 SATRA-TM-25
	Physical	Anti Static Properties	BS EN 344, ISO 20344:2011
	Physical	Blade Cut	EN 388:2016
	Physical	Water Vapor Absorption	EN 420:2003, ISO 5304, ISO 20344:2011
	Physical	Water Vapor Permeability / Transmission	EN 420:2003, ISO 14268:2012, ISO 20344:2011
Textile / Leather	Chemical	Total Lead in children's metal products (including jewelry)	CPSC-CH-E1001-08.3 Acid Digestion Method (ICP-OES / AAS)
	Chemical	Total Lead in children's non-metal products	CPSC-CH-E1002-08.3 Acid Digestion Method (ICP-OES / AAS)
	Chemical	Determination of Cadmium	BS EN 1122 : 2001
	Chemical	Chromic oxide content	ISO 5398-3 : 2007 (IULTCS/IUC 8:3)
Textile	Chemical	Nickel Release	EN 1811 : 2011
	Chemical	Lead in Paint & surface coating	16 CFR 1303 CPSC-CH-E1003-09.1 Acid Digestion Method (ICP-OES / AAS)
	Chemical	Extractable Heavy Metals	ISO 105 E04:2013
Paint, Paper, Textiles, Leather, Wood	Chemical	Migration of certain elements	EN 71-3: 2013

21/07/2017

-----sd-----

Date

Director



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

Paint, Soil & plastics	Chemical	Total heavy metals	EPA 3052:2007
Leather	Chemical	Total metal contents	ISO 17072-2: 2011
	Chemical	Extractable Heavy Metals	ISO 17072-1:2011
Textile Products	Chemical	pH	AATCC 81 : 2012 ISO 3071 : 2005
	Chemical	Formaldehyde	AATCC 112 : 2008 BS EN ISO 14184-1 : 2011 BS EN ISO 14184-2 : 2011
	Chemical	Formaldehyde	Spot Method
Leather & Footwear	Chemical	Determination of pH	EN ISO 4045 : 2008 (IULTCS/IUC 11), SLC 13, EN 420, ISO 20344
	Chemical	Chromium (VI) content	ISO 17075 :2007, (IULTCS/IUC 18), SLC 22, EN 420, ISO 20344
	Chemical	Formaldehyde content	ISO 17226-2 : 2008 (IULTCS/IUC 19-2), SLC 23
Textile Fabric & Products	Chemical	Fiber Analysis : Quantitative	AATCC 20A : 2014 ISO 1833 ASTM D629 - 15
	Chemical	Fiber Analysis : Qualitative	AATCC 20 : 2013 ASTM D276 - 12
Textiles	Chemical	Aromatic amines from Azo colorants	BS EN ISO 14362-1 : 2017 BS EN ISO 14362-3 : 2017
Leather & Footwear	Chemical	Determination of N,N Dimethyl Formamide (DMFa)	ISO/TS 16189:2013
Textiles	Chemical	Chlorinated phenols	LFGB B 82.02-8
Textiles / Plastics	Chemical	Determination of Phthalates	CPSC-CH-C1001-09.3
			BS EN 15777 : 2009
			ISO 14389: 2014

21/07/2017

Date

-----sd-----

Director



ACCREDITATION DOCUMENT

F-06/02
Issue Date: 10/08/15
Rev. No: 07
LAB 022

Textile/ Plastic/ Leather/ Footwear	Chemical	Determination of Dimethyl Fumarate (DMFu)	ISO/TS 16168:2012
Leather	Chemical	Aromatic amines from Azo colorants	ISO 17234-1 : 2015 (IULTCS/IUC 20-1); ISO 17234-2 : 2015 (IULTCS/IUC 20-2)
	Chemical	Chlorinated phenols	ISO 17070:2015
	Chemical	Formaldehyde (by HPLC)	ISO 17226-1:2008
Textile & Leather	Chemical	Organotin	ISO TS 16179:2012
Petroleum	Chemical	Flash & Fire Points – Cleveland open cup	ASTM D92 – 12b
	Chemical	Flash point – Pensky-Martens closed cup	ASTM D93 - 13
	Chemical	Kinematic Viscosity	ASTM D445
	Chemical	Total acid number (TAN)	ASTM D974
	Chemical	Total base number (TBN)	ASTM D2896 - 11
Water & Waste Water	Chemical	pH	APHA 4500 H - B
	Chemical	Conductivity	APHA 2510 B
	Chemical	Hardness	APHA 2340 C
	Chemical	Alkalinity	APHA 2320 B
	Chemical	Chloride	APHA 4500 Cl - B
	Chemical	Heavy Metals (Pb, Cd, Hg, As, Sb, Fe, Ni, Cu, Cr, Mn, Zn)	APHA 3030, 3111, 3120 (ICP-OES, FAAS)

21/07/2017

Date

-----sd-----

Director