

	<b>ACCREDITATION DOCUMENT</b>	<b>F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 016</b>
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**Accreditation No: LAB 016**

**Awarded to**

**SGS Consumer & Retail Services Laboratory  
SGS Pakistan (Pvt) Ltd. Lahore, Pakistan.**

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 **25-11-2008** by Pakistan National Accreditation Council.

The laboratory complies with the requirements of **ISO/IEC 17025:2017**.

The accreditation requires regular surveillance, and is valid until **24-06-2024**.

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**

24-12-2021

Date

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Director General

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**Testing Laboratory.**

Accreditation Scope of SGS Consumer & Retail Services Laboratory,  
Plot # 7, Din Muhammad Town (Opposite Police Training Institute) 19-Km  
off Multan Road, Chuhang, Lahore, Pakistan.

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 Material/ products /Physical tests	Physical	Fabric weight per unit area	ASTM D3776/D3776M – 2020 )ISO 3801:1977
	Physical	Ends & picks (woven fabric)	ASTM D3775 – 17
	Physical	Stitch density (knitted fabric)	ASTM D3887 – 96 (Reapproved 2008)/BS 5441: 2019
	Physical	Ends & Picks (Woven Fabric)	ISO-7211/2:1984
	Physical	Tearing strength (Elmendorf)	ASTM D 1424:09(re-approved 2019) / ISO 13937-1:2000

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<b>Materials/Products tested</b>	<b>Testing field (e.g. environmental testing or mechanical testing)</b>	<b>Types of test/ Properties measured</b>	<b>Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference</b>
Textile Material/ products /Physical tests	Physical	Spray rating test	AATCC 22:20147 / ISO 4920:2013
	Physical	Pilling resistance	ASTM D3512/D3512M – 16
	Physical	Tensile strength	ASTM D5034 – 09 (Reapproved 2017)/ ASTM D 5035:2011 (Reapproved 2019)
	Physical	Abrasion	BS EN ISO 12947-2: 2017
	Physical	Tear strength (Single rip)	ASTM D 2261-2017
	Physical	Tear strength (trapezoid)	ASTM D 5587:2019
	Physical	Tensile strength (grab/strip method)-measuring breaking force.	BS EN ISO 13934-1 2013/ BS EN ISO 13934-2 2014

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Textile Material/ products /Physical tests	Physical	Pilling resistance- sample visual assessment is required	BS EN ISO 12945-2:2000
	Physical	Pilling resistance- sample visual assessment is required	BS 5811:1986 /BS EN ISO 12945.1:2001 ISO 12945-1 2000
	Physical	Tear strength	BS EN ISO 13937-2/3:2000
	Physical	Seam slippage	ISO 13936-1(2004) used only upon confirmation
	Physical	Bursting strength	ASTM D 3787:2020
	Physical	Bursting strength	BS EN ISO 13938-2:2019
	Physical	Seam Slippage	BS EN ISO 13936-1/ 2 :2004 ASTM 434:1995
	Physical	Seam strength	ISO 13935 1/2:2014
	Physical	Determination of Extension and Modulus	BS EN 14704 -1 :2005

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Textile Material/ products /Physical tests	Physical	Slide Fastness (Zips)	BS 3084:2006
	Physical	Stretch Properties of Fabrics Woven from Stretch Yarns	ASTM D3107 – 07 (Reapproved 2019)
	Physical	Fabric Width	ASTM D3774 – 96 (Reapproved 2018)
	Physical	Fabric /Garment shrinkage	AATCC 135:2018/ AATCC 150:2018 ISO 3759 2011 ISO5077-2007 ISO 6330:2012
	Physical	Appearance after wash	AATCC 124:2018
	Physical	Skewness after wash	AATCC 179:2019

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Textile Material/ products /Physical tests	Physical	Color fastness to washing	ATCC 61:2013, BS EN ISO 105:CO6 :2010 ISO 105:CO8:2010- CO9:2001Amd2003-C10- 2006
	Physical	Color fastness to perspiration	AATCC 15: 2019 /BS EN ISO 105 -EO4:2013
	Physical	Color fastness to rubbing	AATCC 8:2016/BS EN ISO 105X12:2016/ ISO 105X12:2016
	Physical	Color fastness to water	AATCC 107:2013 /BS EN ISO 105 EO1:2013
	Physical	Color fastness to sea water	AATCC 106:2013 / BS EN  ISO 105 EO2:2013
	Physical	Color fastness to dry cleaning	BS EN ISO 105 DO1:2010

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Textile Material/ products /Physical tests	Physical	Color fastness to non-chlorine bleach	AATCC 172: 2019
	Physical	Seam Slippage	ASTM 1683-2018
	Physical	Soil release oily stain release method.	AATCC 130:2018
	Physical	Phenolic yellowing	Courtlaulds research, ISO 105 X18:2007
	Physical	Color fastness to chlorinated water	BS EN ISO 105 EO3 :2010
	Physical	Print Durability	IHTM – 1, BHS 12-A

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Textile Material/ products /Physical tests	Physical	Smoothness of Seams in Fabrics after Repeated Home Laundering	AATCC 88 B: 2018
	Physical	Retention of Creases in Fabrics after Repeated Home Laundering	AATCC 88 C :2018
	Physical	Colorfastness to commercial and domestic Laundering	ISO 105 CO8:2010
	Physical	Colorfastness to Hot pressing	ISO 105 X11:1994/BS EN ISO X11 :1996
	Physical	Flammability	16CFR 1610:2008 ASTM D 1230:2010 (re – approved 2016)

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Textile Material/ products /Physical tests	Physical	Stretch Properties of Knitted fabric having low power	ASTM D2594:2020
	Physical	Color fastness to saliva	GB/T 1886-2002
	Physical	Color fastness to Perspiration	GB/T 3922-1995 AS-2001.4 E04.2005
	Physical	Color fastness to Water	GB/T 1713-1997 AS-2001.4 E01.2001
	Physical	Color fastness to Rubbing	GB/T 3920-2008 AS-2001.4.3-1995

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Textile Material/ products /Physical tests	Physical	Color fastness to Dry cleaning	GB/T 5711-1997
	Physical	Tear properties of fabric (Single Tear)	GB/T 3917.2.2009 AS -2001.2.8-2001
	Physical	Color fastness to Washing	GB/T 3921.1 to 5-1997 AS- 2001.4.15-2006
	Physical	Dimensional change to washing	AS -2001.5.4-2005
	Physical	Seam slippage	AS -2001.2.21-1989
	Physical	Tensile strength	AS -2001.2.3-1998

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Textile Material/ products /Physical tests	Physical	Spirality	ISO 16322-2&3:2005
	Physical	Color fastness to saliva	DIN 53160-1: 2010, DIN 53160 -2: 2010,
	Physical	Soil release oily stain release method	AATCC 130:2018
	Physical	Seam Slippage	ASTM 1683-2018
	Physical	Uppers, lining and in socks. Abrasion resistance	BS EN 13520:2002/ISO 17704

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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
<b>TEXTILES /ACCESSORIES</b>	Physical	Determination of Sharp point	ASTM F 963 / 16 CFR 1500.48/ EN 71-1: 2014)
	Physical	Determination of Sharp Edge	ASTM F 963 / 16 CFR 1500.49/ EN 71-1 : 2014)
	Physical	Determination of Torque	ASTM F 963 / 16 CFR 1500.49/ EN 71-1 : 2014)
	Physical	Determination of small parts	ASTM F 963 / 16 CFR 1501/ EN 71-1 :2014)
	Physical	Tension test	16CFR 1500.51 /52/53

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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 Materials / Products/ Chemical tests	Chemical	Fiber Analysis	AATCC 20A 2014 /ISO 1833 :2006 /In accordance with 73/44/EEC and 96/73/EC as amended by 2006/2/EC
	Chemical	pH Value of aqueous extract	AATCC 81 :2016 ISO 3071 :2020
	Chemical	Azo Amines	ISO 14362-1/2:2017
	Chemical	Formaldehyde Content	ISO 14184-1/2:2011 / AATCC 112 :2008, JPLAW 112 / JISL 1041 :2011
	Chemical	Lead & Cadmium Content	ASTM E 1613-04 ASTM E 1645-01 (2007) CPSC-CH-E-1001- 08 CPSC-CH-E- 1002-08 CPSC-CH-E- 1003-09 16 CFR 1303-1 US Public law 110-314

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Textile Materials /Leather Products/ Chemical tests	Chemical	AZO dyes analysis	(GB/T 17592, GB/T 23344)
	Chemical	Phthalates Contents	CPSC-CH-C1001-09.4  ISO 14389:2014
	Chemical	Formaldehyde Content	ISO/ 17226-2 /:2018 DIN 53315 (1996-03)
	Chemical	Cr VI Content	ISO 17075:2017 BSEN 21420:2020 DIN 53314 (1996-04) /CEN/TS 14495 :2003
	Chemical	Azo Amines	ISO 17234-1:2015/ ISO 17234-2:2011

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Textile Materials /Leather Products/ Chemical tests	Chemical	pH	ISO 4045 :2008
	Chemical	Formaldehyde	GB/T 2912
	Chemical	pH	(GB/T 7573, GB/T 2724)
	Chemical	AZO dyes analysis	(GB/T 17592, GB/T 23344)

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Gloves	Physical	Abrasion Resistance	EN 388:2016 +A1 2018
	Physical	Blade Cut Resistance	EN 388:2016 +A1 2018
	Physical	Tear Resistance	EN 388:2016 +A1 2018
	Physical	Puncture Resistance	EN 388:2016 +A1 2018
	Physical	Water Vapour absorption	EN ISO 21420 :2020/ Clause 5.3.1/6.3.1
	Physical	Water Vapour Permeability / Transmission	EN ISO 21420 :2020 Clause 5.3.2/6.4.2
	Physical	Dexterity	EN ISO 21420 :2020: Clause 5.1
	Physical	Size	EN ISO 21420 :2020: Clause 5.2
	Chemical	Cr VI	EN ISO 21420 :2020/ISO 17075-1
	Chemical	pH	EN ISO 21420 :2020/ISO 4045/ISO 3071

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Leather and Footwear	Physical I	Tear Strength	ISO 3377 1:2011- ISO 3377 -2 2016 EN 13571:2002, STM -162.
	Physical	Tensile strength	ISO-3376 2020, STM-43,
	Physical	Distension of grain elastability-lastometer ball burst	STM-24, ISO 3379 :2015
	Physical	Adhesion of finish	EN ISO 11644: 2009
	Physical	Vamp flex test resistance to crease and cracking	SATRA TM 25.
	Physical	Flexing Resistance (Bally)	ISO 5402-1:2011
	Physical	ROSS FLEX	BS 5131 2.1 1991; STM 60; EN 12769 :1980:04

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Leather and Footwear	Physical I	Resistance of foot ware to flexing	STM 92.
	Physical	Flexing Resistance of outsole	STM 133;
	Physical	Abrasion Resistance of Leather	ISO-20344 :2011, ASTM-D4966 :2016, STM 31
	Physical	Color Fastness to Rubbing	EN ISO 17700: 2019, EN ISO 11640 :2018, STM 167, ASTM D 5053:03(2015)
	Physical	Water and perspiration fastness	STM 335, BS EN ISO 1164 :2012, IUF 426
	Physical	Density	ISO 2781 2018

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Leather and Footwear	Physical I	Dry cleaning	ISO 11643:2009 BS EN ISO 11643:2009 EN ISO 11643:2009
	Physical	Washing	ISO 15702, ISO 15703 :1999
	Physical	Shrinkage temperature	ISO 3380 2015 & IUP 16
	Physical	Thickness	IUP 4; ISO 2589:2016
	Physical	Abrasion of outsole	ISO 4649 2017/ STM 174
	Physical	Colorfastness to mild Washing	ISO 15703:1998
	Physical	Colorfastness to PVC Migration	ISO 15701:1998

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Leather and Footwear	Physical	Colorfastness to Machine Washing	ISO 15702:1998
	Physical	Flexing Resistance (Bally)	ISO 17694:2016
	Physical	Tear Strength	ISO 17696:2004 BS EN 13571:2002
	Physical	Breaking strength of leather by Grab method	ASTM D 2208 2016
	Physical	Elongation of leather by Grab method	ASTM D 2209 2015
	Physical	Abrasion of outsole	BS EN 12770:2000
	Physical	Colorfastness to Water spotting	ISO 15700:1999

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Leather and Footwear	Physical	Slit Tear Strength	ASTM D 2212:2015
	Physical	Tongue Tear Strength	ASTM D 4704:2017
	Physical	Water Vapour permeability and Absorption	ISO 14268:2012

<b>Materials/Products tested</b>	<b>Testing field (e.g. environmental testing or mechanical testing)</b>	<b>Types of test/ Properties measured</b>	<b>Reference to standardized method (e.g. ISO 14577-1:2003)/ Internal method reference</b>
Safety Shoes	Physical	Height of upper	ISO 20344:2011 clause 6.2
Safety Shoes	Physical	Seat region	EN20345:2011 clause 5.2.3
Safety Shoes	Physical	Construction	EN20345:2011 Clause 5.3.1.1
Safety Shoes	Physical	Upper/outsole bond strength	ISO 20344:2011 Clause 5.2
Upper	Physical	Tear strength	ISO 20344:2011 Clause 6.3
Upper	Physical	Tensile properties	ISO 20344:2011 Clause 6.4.1
Upper	Physical	Water Vapour permeability and coefficient	ISO 20344:2011 Clause 6.6 & 6.8
Outsole	Physical	Construction / Design / Cleat Hight	EN20345:2011 Clause 5.8.1

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Outsole	Physical	Abrasion resistance	ISO 20344:2011 Clause 8.3
Insole/In sock/Lining	Physical	Abrasion	ISO 20344:2011 Clause 7.3 & 6.12
Outsole	Physical	Cleated outsole	EN20345:2011 Clause 5.8.1
Outsole	Physical	Outsole Thickness	ISO 20344:2011 Clause 8.1.2

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