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Accreditation No: LAB 016

Awarded to

**SGS-Consumer & Retail Services Laboratory (CRS),
19-km off Multan Road, Plot No. 07, Din Muhammad Town, Lahore**

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 **24-06-2027**.

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

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SD

Director General

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Testing Laboratory.

Accreditation Scope of SGS Pakistan (Pvt) Ltd. Lahore, Pakistan.
Plot # 7, Din Muhammad Tow (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
All 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 – 17e1/ ISO-7211/2:1984
	Physical	Stitch density (knitted fabric)	ASTM D3887 – 96 (Reapproved 2008)/BS 5441: 2019/ ASTM D8007-15
	Physical	Spray rating test	AATCC 22:2017e / ISO 4920:2012
	Physical	Tearing strength (Elmendorf)	ASTM D 1424:09(re-approved 2019) / ISO 13937-1:2000

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Textile Material/ products /Physical tests	Physical	Pilling resistance	ASTM D3512/D3512M – 16
	Physical	Tensile strength	ASTM D5034 – 2021/ ASTM D 5035:2011 (Reapproved 2019)/ BS EN ISO 13934-1 2013/ BS EN ISO 13934-2 2014/ AS - 2001.2.3.1 2001 (R2016) AS-2001.2.3.2 2001 EN 20471:2013/Amd 1 2016 (Clause 5.5.1)
	Physical	Abrasion	BS EN ISO 12947-2: 2016
	Physical	Tear strength	ASTM D 2261-13 (2017)e1/ BS EN ISO 13937-2/3:2000/ GB/T 3917.2.2009 /AS - 2001.2.8-2001/ASTM D 5587:2019
	Physical	Pilling resistance- sample visual assessment is required	BS EN ISO 12945-2:2020 /BS EN ISO 12945-1 2020
	Physical	Seam slippage/Seam Strength	BS EN ISO 13936-1(2004) BS EN ISO 13936- 2 :2004 ASTM D 434:1995/ D1683/D1683M – 22 AS - 2001.2.21-1989 ISO 13935 1/2:2014
	Physical	Bursting strength	ASTM D 3787:2020 BS EN ISO 13938-2:2019

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Textile Material/ products /Physical tests	Physical	Color fastness to Hypochlorite	EN 20471:2013/Amd 1 2016 Clause 5.3.3
	Physical	Determination of Extension and Modulus	BS EN 14704 -1 :2005/ISO 20932-1 2020 +A1 2021
Textile Material/ products /Physical tests	Physical	Slide Fastness (Zips)	BS 3084:2006/ BS EN 16732:2015
	Physical	Stretch Properties of Fabrics Woven/Knitted from Stretch Yarns	ASTM D3107 – 07 (Reapproved 2019)/ ASTM D2594/D2594M-21
	Physical	Fabric Width	ASTM D3774 – 2018
	Physical	Fabric /Garment shrinkage	AATCC 135:2018/ AATCC 150:2018 ISO 3759 2011 ISO5077-2007 ISO 6330:2012/ISO 6330 :2021 AS -2001.5.4-2005
	Physical	Appearance after wash	AATCC 124:2018

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	Physical	Spirality/Skewness after wash	AATCC 179:2019/ISO 16322-2&3 :2021
Textile Material/ products /Physical tests	Physical	Color fastness to washing	AATCC 61:2020, BS EN ISO 105:CO6 :2010 ISO 105:CO8:2010-ISO 105 CO9:2001Amd2003-ISO 105 C10-2006/ GB/T 3921.1 to 5- 1997 AS- 2001.4.15-2006 EN 20471:2013/Amd 1 2016 (Clause 5.3.3)
	Physical	Color fastness to perspiration	AATCC 15: 2021 /BS EN ISO 105 -EO4:2013/ GB/T 3922-1995/AS-2001.4 E04.2005 EN 20471:2013/Amd 1 2016 (Clause 5.3.3)
	Physical	Color fastness to rubbing	AATCC 8:2016/BS EN ISO 105X12:2016/ ISO 105X12:2016/ GB/T 3920- 2008 /AS-2001.4.3-1995 EN 20471:2013/Amd 1 2016 (Clause 5.3.1)
	Physical	Color fastness to water	AATCC 107:2013 /BS EN ISO 105 EO1:2013/ GB/T 1713-1997/AS-2001.4 E01.2001
	Physical	Color fastness to Sea water	AATCC 106:2013 / BS EN ISO 105 EO2:2013
	Physical	Fastness to Dry clean	BS EN ISO 105 DO1:2010/ AATCC 132 :2013 GB/T 5711- 1997 /EN 20471:2013/Amd 1 2016 (Clause 5.3.3)

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	Physical	Soil release oily stain release method.	AATCC 130:2018
	Physical	Phenolic yellowing	Courtaulds 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
Textile Material/ products /Physical tests	Physical	Smoothness of Seams in Fabrics.	AATCC 88 B: 2018
	Physical		
	Physical	Retention of Creases in Fabrics after Repeated Home Laundering	AATCC 88 C :2018
	Physical	Color fastness to saliva	DIN 53160-1: 2010, DIN 53160 -2: 2010, GB/T 18886-2019

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	Physical	Colorfastness to Hot pressing	ISO 105 X11:1994/BS EN ISO X11 :1996 EN 20471:2013/Amd 1 2016 (Clause 5.3.3)
	Physical	Flammability	16CFR 1610:2008 ASTM D 1230:2022a
	Physical	Uppers, lining and in socks. Abrasion resistance	BS EN 13520:2002+A12004/ISO 17704:2004
Textile Accessories	Physical	Determination of Sharp point	<i>ASTM F963 - 2023 SECTION 4.9 / 16 CFR 1500.48 / EN 71-1: 2014+A1 2018)</i>
	Physical	Determination of Sharp Edge	<i>ASTM F963 - 2023 SECTION 4.7 / 16 CFR 1500.49/ EN 71-1: 2014+A1 2018)</i>
	Physical	Determination of Torque	<i>ASTM F963 - 2023 SECTION 8.8 / 16 CFR 1500.53 (f)/ EN 71-1: 2014+A1 2018)</i>
	Physical	Determination of small parts	<i>ASTM F963 - 2023 SECTION 4.6 / 16 CFR 1501/ EN 71-1: 2014+A1 2018)</i>

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	Physical	Determination of Tension	<i>ASTM F963 - 2023 SECTION 8.9 / 16 CFR 1500.53/ EN 71-1: 2014+A1 2018)</i>
Textile Materials / Products/ Chemical tests	Chemical	Fiber Analysis	AATCC 20A 2021 /ISO 1833 :2020 /In Regulation (EU) No 1007/2011 in accordance with 73/44/EEC and 96/73/EC as amended by 2008/121/EC.
	Chemical	pH Value of aqueous extract	AATCC 81 :2022 ISO 3071 :2020/ GB/T 7573, GB/T 2724) EN ISO 21420:2020
	Chemical	Azo Amines	ISO 14362-1/3:2017/ GB/T 17592, GB/T 23344)
	Chemical	Formaldehyde Content	ISO 14184-1/2:2011 / AATCC 112 :2020, JPLAW 112 / JISL 1041 :2011/ GB/T 2912
	Chemical	pH(Leather)	ISO 4045 :2018/ EN ISO 21420:2020

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	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
	Chemical	Phthalates Contents	CPSC—CH-1001.09.3 ISO 14389:2022
	Chemical	Formaldehyde Content (leather)	ISO/ 17226-2 :2018
	Chemical	Cr VI Content	ISO 17075-1:2017 EN ISO 21420 :2020/ISO 17075-1
	Chemical	Azo Amines (Leather)	ISO 17234-1:2020/ ISO 17234-2:2011
Gloves	Physical	Abrasion Resistance	EN 388:2016 +A1 2018

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	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
Leather and Footwear	Physical I	Tear Strength	ISO 3377 1:2011- ISO 3377 - 2 2016 STM -162:2017 / ISO 17696:2004 ASTM D 2212:2021 ASTM D 4704:2017

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	Physical	Tensile strength/Elongation	ISO-3376 2020, STM-43:2021/ ASTM D 2208 2016 ASTM D 2209 2021
	Physical	Distension of grain elastability-lastometer ball burst	STM-24 :2017, ISO 3379 :2015
	Physical	Adhesion of finish	ISO 11644: 2022
	Physical	Vamp flex test resistance to crease and cracking.	SATRA TM 25:2020
	Physical	Flexing Resistance (Bally)	ISO 5402-1:2022/ ISO 17694:2016
	Physical	ROSS FLEX	BS 5131 2.1 1991. STM 60:2020
Leather and Footwear	Physical	Resistance of foot ware to flexing	STM 92:2016
	Physical	Flexing Resistance of outsole	STM 133:2017
	Physical	Abrasion Resistance of Leather	ISO-20344 :2021 ASTM-D4966 :2016, STM 31:2021

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	Physical	Color Fastness to Rubbing	EN ISO 17700 method A&C:2019, EN ISO 11640 :2018, STM 167: 2017 ASTM D 5053:03(2015)
	Physical	Water and perspiration fastness	STM 335:2018 BS EN ISO 11641 :2012, IUF 426
	Physical	Density	ISO 2781 2018
Leather and Footwear	Physical	Dry cleaning	BS 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 2024/ STM 174:2016/ BS EN 12770:2000
	Physical	Colorfastness to PVC Migration	ISO 15701:2022

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	Physical	Colorfastness to Water spotting	ISO 15700:1998
	Physical	Water Vapour permeability and Absorption	ISO 14268:2023
Safety Shoes	Physical	Height of upper	EN ISO 20344:2021 clause 6.2
	Physical	Heel Area	EN ISO 20345:2022 +A1 2024 clause 5.2.3
	Physical	Construction	EN ISO 20345:2022 +A1 2024 Clause 5.3.1.1
	Physical	Upper/outsole bond strength	EN ISO 20344:2021 Clause 5.2
	Physical	Tear strength (upper, lining and tongue)	EN ISO 20344:2021 Clause 6.3
	Physical	Tensile properties (upper material)	EN ISO 20344:2021 Clause 6.4
		Physical	Water Vapour permeability and coefficient
Physical		Abrasion resistance (Out sole)	EN ISO 20344:2021 Clause 8.4

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Safety Shoes	Physical	Abrasion (lining and in sock)	EN ISO 20344:2021 Clause 6.12
	Physical	Design (thickness, cleat area and cleat height)	EN ISO 20345:2022 +A1 2024 Clause 5.8.2
	Physical	Outsole Thickness/Cleat height	EN ISO 20344:2021 Clause 8.2.3
Motor bike gloves	Physical	Sizing & measurement of gloves	EN 13594:2015 (clause 4.5&6.4)
Thermal Risk			EN 407:2020(clause 4.4.1)
Welding gloves			EN 12477:2001 +A1 2005 clause (3.2)
Thermal Risk	Physical	Tear strength	EN 407:2020 clause (6.8)
Welding gloves			EN 12477:2001+A1 2005 Clause (5.3)
Motor bike gloves			EN 13594:2015 Clause (4.7 & 6.6)
Motorbike garments			EN 17092 :2020 clause (4.5)
Motor bike gloves	Physical	Seam strength	EN 13594:2015 Clause (4.8, 6.7 & Annex B)
Motorbike garments			EN 17092:2020 Clause (4.4.2)
Motorbike garments	Physical	Two-piece suit requirements for joint between the upper and the lower part	EN 17092:2020 Clause 4.6.2

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Motor bike gloves	Physical	Ergonomics	EN 13594:2015 Clause 4.4 & Annex A
Motorbike garments			EN 17092:2020 Clause 4.8&5.6
Motor bike gloves	Physical	Blade Cut Resistance	EN 13594:2015 Clause 4.9
Welding gloves			EN 12477:2001+A1 2005 Clause 5.2
Welding gloves	Physical	Dexterity	EN 12477:2001+A1 2005 Clause 5.9
Welding gloves	Physical	Abrasion resistance	EN 12477:2001 +A1 2005 Clause 5.1
Welding gloves	Physical	Puncture Resistance	EN 12477:2001 +A1 2005 Clause 5.4
Motor bike gloves	Physical	Hard inclusions	EN 13594:2015 Clause 4.3 & 6.3
Safety Shoes	Physical	Ergonomics	EN ISO 20344:2021 Clause 5.1
Safety Shoes	Physical	Internal length of Toe cap	EN ISO 20344:2021 Clause 5.3.2.1
Safety Shoes	Physical	Construction of penetration inserts	EN ISO 20345:2022+A1 2024 Clause 6.2.1.2
Safety Shoes	Physical	Corrosion Resistance (Toe Cap)	EN ISO 20345:2022 5.6.2
Safety Shoes	Physical	Insole in sock and footbed Thickness	EN ISO 20344:2021 Clause 7.1
Safety Shoes	Physical	Determination of outsole dimensions	EN ISO 20344:2021 Clause 8.2
Safety Shoes	Physical	Upper flexing	EN ISO 20344:2021 Clause 6.5
Safety Shoes	Physical	Dimension of perforation resistance inserts	EN ISO 20344:2021 Clause 5.8
Safety Shoes	Physical	Abrasion Resistance of insole	EN ISO 20344:2021 Clause 7.3

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