

	ACCREDITATION DOCUMENT	F-06/02 Issue Date: 18/08/2020 Rev. No: 09 LAB 040
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Accreditation No: LAB 040

Awarded to

**Intertek Pakistan Private Limited Laboratory
Baig Tower Plot #E-6 Block 7 &8 Central
Commercial Area, Cooperative housing society
Karachi, 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 **08-09-2009** 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 **05-11-2025**

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

18-03-2025
Date

SD
Director General

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Testing Laboratory.

Accreditation Scope of Intertek Pakistan Karachi - 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 / Fabric Product	Textile Testing	Fabric mass per unit area	ISO 3801, ASTM D3776, BS2471
	Textile Testing	Ends& Picks (woven fabric)	ASTM D 3775, ISO- 7211-2
	Textile Testing	Shrinkage	BS EN ISO 6330, BS EN ISO 5077,BS EN ISO 3759, AATCC 135/150
	Textile Testing	Appearance of fabrics after wash appearance of seam after wash and appearance of Crease after wash	AATCC 124, BS ISO 7768, AATCC 88B, BS ISO 7770, AATCC 88C, BS ISO 7769
	Textile Testing	Color Fastness to Washing	BS EN ISO 105 CO1-CO5, BS EN ISO 105CO6, AATCC 61
	Textile Testing	Color Fastness to Perspiration	BS EN ISO 105EO4, AATCC 15
	Textile Testing	Color Fastness to Rubbing /Crocking	BS EN ISO 105X12 /X16 AATCC 8
	Textile Testing	Color Fastness to Water	BS EN ISO 105EO1, AATCC 107
	Textile Testing	Color Fastness to Sea Water	BSEN ISO 105 EO2, AATCC 106
	Textile Testing	Color Fastness to Dry Cleaning	BSEN ISO 105 DO1, AATCC 132
	Textile Testing	Tear Strength (Digital)	BS EN ISO13937-1 ASTM D 1424
	Textile Testing	Tear Strength (Elmendorf)	BS EN ISO13937-1 ASTM D 1424
	Textile Testing	Abrasion Resistance	BSEN ISO 12947- 2/3/4, ASTM D4966

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Textile / Fabric Product	Textile Testing	Water Repellence: Spray Test	ISO 4920, AATCC 22
	Textile Testing	Soil Release- oil Stain release Method	AATCC 130
	Textile Testing	Pilling Resistance (ICI Pilling Box Method)	BS EN ISO 12945-1
	Textile Testing	Pilling Resistance (Martindale)	BS EN ISO 12945-2 ASTM D 4970
	Textile Testing	Pilling Resistance (Random Tumble)	ASTM D 3512
	Textile Testing	Flammability Test	16 CFR 1610 ASTM D 1230
	Textile Testing	Button / Stud Socket	16 CFR 1500 51-53 Part F
	Textile Testing	Sharp Point in toys & toys & another article	16 CFR 1500.48
	Textile Testing	Sharp edge in toys & toys & another article	16 CFR 1500.49
	Textile Testing	Torque Test / Small Part Assessment	16 CFR 1500.50,51-53 16 CFR 1501
	Textile Testing	Bursting strength	BS EN ISO 13938-1/2 ASTM D 3786
	Textile Testing	Seam Slippage / Strength	ASTM D 434, BS 3320 BS EN ISO 13936-1/2 ASTM D 1683 BS EN ISO 13935-1/2
	Textile Testing	Fiber Analysis	AATCC 20/20A BS EN ISO 1833
	Textile Testing	Color Fastness to light	AATCC 16 & ISO 105 B02
	Textile Testing	Skew	AATCC 179 ISO 16322-1/2/3
	Textile Testing	CF to chlorinated water	BS EN ISO 105 E03 AATCC 162
	Textile Testing	Absorbency / Wet ability	AATCC 79, ASTM D 4772, BS EN 14697 Appendix B

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Textile / Fabric Product	Textile Testing	pH Aqueous Extracts)	BS EN ISO 3071 / ISO 4045 AATCC 81
	Textile Testing	Formaldehyde (Free & Hydrolyzed)	BS EN ISO 14184-1/2 AATCC 112
	Textile Testing	Tensile Strength	ISO 13934-1/2 ASTM D 5034/5035
	Textile Testing	Stretch and Recovery	ASTM D 3107 / ISO 14704-1 ASTM D 2594
	Textile Testing	Determination of Aromatic Amines –Azo Dyes	BS EN 14362-1:2003, BS EN 14362-2:2003, BS EN 14362-3:2003, BS EN 14362-1 & 3:2012, BS EN 14362-1 & 3:2017, ISO 17234-1:2020 ISO 17234-2:2011
	Textile Testing	Determination of Phthalates	CPSC – CH – C -1001 -09.4 EN 14372:2004 (6.3.2) BS EN ISO 14389:2014
	Textile Testing	Determination of Alkylphenols (APs) & Alkylphenol ethoxylates (APEOs)	EN ISO 18254-1:2016 EN ISO 18218-1:2015 EN ISO 21084:2019
	Textile Testing	Determination of short-chain (SCCP / MCCP)	ISO 18219-1/2: 2021
	Textile Testing	Determination of Allergenic Disperse dyes Carcinogenic Dyes & Navy-Blue Colorant	DIN 54231:2005-11 ISO 16373-2/3 - LCMS
	Textile Testing	Determination of DMFu	ISO 16186:2012
	Textile Testing	Determination of DMFa	ISO 16189:2013
	Textile Testing	Determination of polycyclic aromatic hydrocarbons (PAHs -Quinoline)	ZEK 01.4-08 2011-11-1694 DIN38407-39-3540/41 AfPS GS 2014:01- (2014-08)
Leather Testing	Formaldehyde in Leather	EN ISO 17226-1: 2021 EN ISO 17226-2: 2018	

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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 / Fabric Product	Textile Testing	Determination of Organotin Compounds	ISO / TS 16179:2012, ISO17353:2005
	Textile Testing	Determination of Chlorinated Phenols	BS EN ISO 17070:2015 BS EN 12673, §35 LMBG 82.02 8 DIN 53313
	Textile Testing	Total Heavy Metal in Paint & Surface coating	EN 16711-1 CPSC- CH – E 1003:09.1 EN 1811
	Textile Testing	Total Heavy Metal in Substrate	EN 16711-1 CPSC – CH –E 1001- 08.3 CPSC- CH-E 1002 -08.3 – ISO 11885 EN1122 / ISO 17072-2
	Textile Testing	Heavy Metal (Extractable) Heavy Metal	EN 16711-2 6020B /ISO 17294-1-2/ISO18412/1311 DIN 54233-3 / ISO 105 E04 / EN 71-3 / ISO 17072-1
	Textile Testing	Nickel Release	EN-1811:2011 + A1:2015, EN 12472: 2020 AAS, ICP-OES, ICP-MS
	Textile Testing	Chromium VI	BS EN ISO 17075-1
	Textile Testing	Chlorinated Organic Carriers.	BS EN 17137-8260D-8270- DIN54232:2010:2018
	Textile Testing	Sweat & saliva	DIN 53160-1: 2010 DIN 53160-2: 2002, GB/T18886:2019
	Textile Testing	Phenolic Yellowing of Textile	ISO 105 X18:2007
	Textile Testing	Colorfastness to Heat: Hot Pressing	ISO 105 X11:1994, AATCC133:2013
	Textile Testing	Flammability of Textiles	US - 16 CFR 1615-16 Loose Children Sleepwear -6
	Textile Testing	Thickness	ASTM D 1777, ISO 2589
	Textile Testing	Ozone Test	ISO 105 GO3, AATCC 109
Textile Testing	Ball Bursting	ASTM 3787-16 (2020)	

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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 / Fabric Product	Textile Testing	Volatile Organic Compound (VOC)	ISO 11423-1, USEPA 5021A Solvent Extraction / analyzed by Headspace-GCMS, In House test Method (Based on EPA 5000 & EPA 5021A - Headspace-GCMS)
	Textile Testing	Flame Retardants (FR)	EN ISO 17881-1/2, ISO 22032, By GCMS / LC-MS/MS, Solvent Extraction followed by GCMS / LCMS
	Textile Testing	Perfluorinated and Polyfluorinated Chemicals (PFCs - PFOS/PFOA)	EN/TS 15968, ISO 23702-1, EN 12673 By GCMS / LC-MS/MS
	Textile Testing	Glycols / Glycol Ethers	In house method (Solvent Extraction By GCMS-LCMS)/ 8270 E GCMS
	Textile Testing	Halogenated Solvents	In house method (Solvent Extraction By GCMS)/8260 D
	Textile Testing	Bisphenols	As per AFIRM ISO 11936 By LC-MS/MS
	Textile Testing	Polyvinyl chloride (PVC) & Polyurethane (PU)	IHTM, Bilstein Method
	Textile Testing	Cord and Drawstring	GB 31701: 2015, EN 14682:2014,
	Textile Testing	Slide Fastener	EN 16732:2015
	Textile Testing	Water Resistance	AATCC 42:2017
	Textile Testing	Anti- Microbials, Biocides & Pesticides	GCMS – ISO 14154, BS EN 12673
	Textile Testing	Other/Miscellaneous Chemicals (Borate, zinc salt, Bisphenol A, Thiourea, Quinoline, AEEA)	LCMS-MS/ ICP
	Textile Testing	UV Absorbers	LCMS- ISO 22032
	Textile Testing	Oil Repellency	AATCC118, ISO 14419:2010
Textile Testing	Odour	SNR 195651:2015 /GB 18401 Section 6.7	

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Textile /Fabric Product	Textile Testing	Stitch Density (Knitted Fabric) / Yarn Count	ASTM D 3887 / BS 5441-88 / ISO 7211-5 / ASTM D1059 / BS EN 14970
	Textile Testing	Bow & Skew	ASTM D3882 / BS 2819
	Textile Testing	Unsnapping of Snap Fastener	ASTM D4846
	Textile Testing	Fiber Shedding	PM05 / Appendix 03
	Textile Testing	Dyes - Allergenic Disperse Dyes Dyes – Carcinogenic or Equivalent Concern	Liquid extraction, LC-MS
	Textile Testing	Organic Solvents (VOCs)	GC-MS, ISO/TS 16189
	Textile Testing	Determination of polycyclic aromatic hydrocarbons (PAHs -Quinoline)	AfPS GS 2019
	Textile Testing	Fit Properties	NAHM Board / TS Board
	Textile Testing	Pile Height / Pile to Ground Ratio	BS 14697
	Textile Testing	Measurement of width	ASTM D3774 / ISO 3932
	Textile Testing	Color Fastness to Chlorine and Non Chlorine Bleach	AATCC 172 / AATCC 188 / TS 001
	Textile Testing	Color Fastness to wet scrubbing	ISO 105 C07
	Textile Testing	Solvents (Benzene NMP, DMAc , Formamide)	ISO /TS 16189
	Textile Testing	p-Phenyldiamine / Free Aniline	ISO 14362
	Textile Testing	Chlorinated Paraffins	ISO 22818:2021
Textile Testing	PFAS - Ethoxylated Tallow Amine	EN/TS 15968, ISO 23702-1, By GCMS / LC-MS/MS	

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Environment (Water/ Wastewater / Sludge/ Textile/ Leather / Polymer / Chemical / leachate)	Environment Testing	APEOs/Aps Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): Including All Isomers (NPEO/NP/OPEO/OP)	ISO 18857-2 / ISO 18254-1 / ASTM D7065 / ASTM D7742 / ISO 21084 / IHTM EL-01 / ISO 18857-2 (Modified Dichloromethane Extraction) Preparation: USEPA 3540/3541 Soxhlet USEPA 3550 ultrasonic (GC-MS or LC-MS(-MS))
	Environment Testing	Anti-microbials and Biocides	USEPA 8270E / BS EN 12673 / ISO 14154 / ISO 2292-1 / EN 17134 / EPA 3510C ISO 13365-1 / IHTM EL -02 GC-MS /LCMS/LCMSMS -DAD
	Environment Testing	DMFU	ISO 16186 / IHTM EL -03
	Environment Testing	Chemical Screening for ZDHC- MRSL	Chemical Screening for ZDHC- MRSL GC-MS/HPLC-DAD/MS, ICP-OES
	Environment Testing	Dimethylformamide (DMFa)	ISO -TS 16189 / EPA 8015 / EPA 8270 E / Modified on DIN 54439) / IHTM EL -04
	Environment Testing	Chlorinated Paraffins (MCCP / SCCP)	Preparation EPA 3510 Analysis: ISO18219-1/2, ISO 12010, ISO 22818 GC-MS(NCI) or LC-MS/MS IHTM EL -05
	Environment Testing	Chlorobenzenes and Chlorotoluenes	USEPA 8260D, 8270E / EN 17137 / IHTM EL -06 GC-MS -Head Space
	Environment Testing	Chlorophenols	USEPA 8270E / DIN50009 BS EN 12673, EN ISO 17070, GC-MS IHTM EL -07
	Environment Testing	Dyes - Allergenic Disperse Dyes / Dyes – (Sensitizing) Carcinogenic or Equivalent Concern – Navy Blue Colorants	Liquid extraction, LC/MS/ DIN 54231, ISO-16373-2/3 IHTM EL -08

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Environment (Water/ Wastewater / Sludge/ Textile/ Leather / Polymer / Chemical / leachate)	Environment Testing	Flame Retardants /Boric acid / Diboron trioxide / Disodium octaborate / Disodium tetraborate, anhydrous / Tetraboron disodium Heptaoxide, Hydrate	USEPA 8270E, 3510C ISO 22032, USEPA 527 and USEPA 8321B – GCMS, ICP/ICP-MS / LC MS -MS / IHTM EL -09
	Environment Testing	Glycols / Glycol Ethers	EPA 3510C / USEPA 8270E Liquid extraction, LC-MS, GC-MS IHTM EL -10
	Environment Testing	Halogenated Solvents	USEPA 8260D, GCMS - Headspace / LCMS, 5021A / IHTM EL -11
	Environment Testing	Organic Solvents (VOCs) /Volatile Organic Compounds	ISO 11423-1, USEPA 8260 D / EPA 5021A, HJ 1067, BS EN 12673 / ISO 20595 / ISO 19070 GCMS–Head Space IHTM EL-12
	Environment Testing	Organotin Compounds	ISO 17353 GC-MS / ISO TS 16179 / ISO 22744-1, IHTM EL -13
	Environment Testing	Perfluorinated and Polyfluorinated Chemicals (PFCs/ PFOA/ PFAS)	PFCs: EPA 537 FTOH: BS EN 12673 EPA 8270, LCMS MS / GCMS IHTM EL -14
	Environment Testing	Other/Miscellaneous Chemicals D4 (Octamethylcyclotetrasiloxane) D5 (Decamethylcyclopentasiloxane) D6 (Dodecamethylcyclohexasiloxane) D7 (Tetradecamethylcyclotetrasiloxane) Diazene-1,2-dicarboxamide [C,C`- azodi (formamide), Perboric acid, sodium salt, Titanium Dioxide (Borate, zinc salt, Bisphenol A, Thiourea, Quinoline, AEEA) / Silica	ISO 14362 / DIN 54231 Bisphenol A, Thiourea, Quinoline: Liquid extraction, LC-MS /MS. Determined as total boron and total zinc via ICP Others: Micro filtration method LC-MS /MS,AEEA: LC-MS-MS Borate Salt: EPA 3015A, EPA 6020B, Tegewa Method IHTM EL -15
	Environment Testing	Polycyclic Aromatic Hydrocarbons (PAHs)	USEPA 8270E/ USEPA 3540 -41, EPA 3550. US EPA 3650, USEPA 827 / DIN 38407-39 AfPS GS 2014 / 2019, GCMS / IHTM EL -16

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Environment (Water/ Wastewater / Sludge/ Textile/ Leather / Polymer / Chemical / leachate)	Environment Testing	Chlorotoluene	USEPA 8270E/ USEPA 3540 -41, EPA 3550. US EPA 3650, USEPA 827 / DIN 38407-39 AfPS GS 2014, GCMS / IHTM EL -16
	Environment Testing	Phthalates – including all other esters of ortho-phthalic acid	USEPA 8270E, 8270D, GC/MS ISO 18856 / ISO 14389 IHTM EL -17
	Environment Testing	Restricted Aromatic Amines (Cleavable from Azo colorants)	ISO 14362, ISO 14362-1/3 EPA 8270E - GC/MS and LC/MS/MS IHTM EL -18
	Environment Testing	UV Absorbers	USEPA 8270 / ISO 22032, USEPA 527 & USEPA 8321B./ LCMS-MS, GCMS, IHTM EL -19
	Environment Testing	Bisphenols	LCMS-MS
	Environment Testing	Bisphenols A	1478-61-1 / 620-92-8 80-09-1 Liquid extraction LCMS ZDHC Wastewater Guidelines ASTM D7574, IHTM EL -20
	Environment Testing	Formaldehyde	ASTM D 6303 (CAS # 50-00-0) IHTM EL -21
	Environment Testing	Heavy Metals	ISO 17294, ISO 17294-2, ISO 11885, EPA 3050, 6010D, 3060A, 7196, 7471B, US EPA 1311,/3051A/200.7 USEPA 200.8 USEPA 6010C USEPA 6020A/B 3051A, IHTM EL -21 ICP/ ICP MS
	Environment Testing	Mercury	ISO 12846 / ISO 17852 / EPA 7471 b / EPA 3051a / USEPA 1311 / EPA 7471b, or EPA 3051a EPA 7471b, or EPA 6020b, IHTM EL -22
	Environment Testing	Chromium (VI)	ISO 18412 / USEPA 218.6 / 196 or USEPA 7199 / DAD USEPA 218.6 / IHTM EL -23

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Environment (Water/ Wastewater / Sludge/ Textile/ Leather / Polymer / Chemical / leachate)	Environment Testing	pH	ISO 10523, EPA SW 9045D, USEPA 150.1 / SM 4500-H+, IHTM EL -24
	Environment Testing	Temperature difference	DIN 38404-4 / USEPA 170.1 / SM 2550 / IHTM EL -25
	Environment Testing	Colour (436nm, 525 nm, 620nm)	ISO 7887 / IHTM EL -27
	Environment Testing	Ammonium-Nitrogen	ISO 11732 / ISO 7150 / USEPA 350.1 / USEPA 350.3 / SM 4500 NH3 -D,E,F,G,H /IHTM EL -28
	Environment Testing	AOX	ISO 9562 / Merck 1.00675.0001 / US EPA 1650, IHTM EL -29
	Environment Testing	Biochemical Oxygen Demand (BOD)	ISO 5815-1 / USEPA 405.1 / SM 5210-B / IHTM D-30
	Environment Testing	Chemical Oxygen Demand (COD)	ISO 6060 / ISO 15705 / USEPA 410.4 /SM 5220-D, IHTM EL -31
	Environment Testing	Dissolved Oxygen (DO)	ISO 5814 / EPA 360.1 /SM 4500-O-G, IHTM EL -32
	Environment Testing	Oil and grease	ISO 9377-2 / SM 5520-B/C / USEPA 1664 revision B IHTM EL -33
	Environment Testing	Total Phenols / Phenol Index	ISO 6439 / SM 5530-B/C / IHTM EL -34
	Environment Testing	Total Chlorine	ISO 7393-2 / EPA 330.5 / SM4500-CI-G / IHTM EL -35
	Environment Testing	Total Dissolved Solids (TDS)	SM 2540-C / USEPA 160.1 / IHTM EL -36
	Environment Testing	Total-Nitrogen	ISO 11905 - Part 1 / ISO 29441 / USEPA 351.2 / SM 4500P-J /N-B /N-C / IHTM EL -37
	Environment Testing	Total-Phosphorus	ISO 11885, ISO 17294 / ISO 6878 / USEPA 365.4, 200.7, 200.8, USEPA 6010C, 6020A, SM4500 P-J / IHTM EL -38

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Environment (Water/ Wastewater / Sludge/ Textile/ Leather / Polymer / Chemical / leachate)	Environment Testing	Total Suspended Solids (TSS)	ISO 11923 / USEPA 160.2 / SM 2540D / IHTM EL -39
	Environment Testing	Chloride	ISO 10304-1 / ISO 15923-1 / SM 4110-B / SM 4110-C / SM 4500-CI D or E / USEPA 300 / IHTM EL - 40
	Environment Testing	Cyanide, total	ISO 6703 – 1, 2, 3 / ISO 14403 – 1, 2 / USEPA 335.2, APHA / SM 4500-CN / IHTM EL -41
	Environment Testing	Cyanide	USEPA 9013, EPA9014 / EPA 9213
	Environment Testing	Sulfate	ISO 10304-1 / ISO 15923-1 / SM 4500 SO ₄ , E, F, G / SM 4100 B, C / USEPA 300 / USEPA 9038 / IHTM EL -42
	Environment Testing	Sulfide	ISO 10530 / SM 4500-S2-D, E,G, or I / IHTM EL - 43
	Environment Testing	Sulfite	ISO 10304-3 / SM 4500-SO ₃ 2-C / IHTM EL – 44
	Environment Testing	Potassium Permanganate	IHTM – EL - 60
	Environment Testing	Paint and Filter Test	EPA 9095B / IHTM EL – 45
	Environment Testing	% Solids (Dry @ 105C)	EPA 160.3 / IHTM EL - 46
	Environment Testing	Turbidity	IHTM EL – 50

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