CERTIFICATE OF ACCREDITATION

This is to attest that

SGS GULF LIMITED – TEXTILE, FOOTWEAR, LEATHER AND PAINT LABORATORY

AC05, AC06, FZLIU10, P.O. BOX 18556, NEAR GATE 12, JEBEL ALI FREE ZONE – SOUTH
DUBAI 971, UNITED ARAB EMIRATES

Testing Laboratory TL-1073

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date December 5, 2024

International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SGS GULF LIMITED – TEXTILE, FOOTWEAR, LEATHER AND PAINT LABORATORY

www.sgs.com

Contact Name John Thomas **Contact Phone** +971-50 454 2863

Accredited to ISO/IEC 17025:2017 *Effective Date December 5, 2024*

Mechanical	
16 CFR 1500.51f	Test methods for simulating use and abuse of toys and other articles intended for use by children 18 months of age or less
16 CFR 1500.52f	Test methods for simulating use and abuse of toys and other articles intended for use by children over 18 but not over 36 months of age
16 CFR 1500.53f	Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age
AATCC 8:2016e (2022)e	Test Method for Colorfastness to Crocking: Crockmeter
AATCC 135:2018	Test Method for Dimensional Changes of Fabrics after Home Laundering
AATCC 150:2018	Test Method for Dimensional Changes of Garments after Home Laundering
AATCC 179:2019	Skewness Change in Fabric and Garment Twist Resulting from Automatic Home Laundering
ASTM D792:20	Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement
ASTM D1424:2021	Standard Test Method for Tearing Strength of Fabrics by Falling-Pendulum (Elmendorf-Type) Apparatus
ASTM D1813:13 (2023)	Standard Test Method for Measuring Thickness of Leather Test Specimens
ASTM D2240:15 (2021)	Standard Test Method for Rubber Property—Durometer Hardness (Inclusion: Type A and D)
ASTM D2617:17a	Standard Test Method for Total Ash in Leather
ASTM F2913:19	Standard Test Method for Measuring the Coefficient of Friction for Evaluation of Slip Performance of Footwear and Test Surfaces/Flooring Using a Whole Shoe Tester
ASTM D3775-17e1	Standard Test Method for End (Warp) and Pick (Filling) Count of Woven Fabrics
ASTM D3776/D3776M-20	Standard Test Methods for Mass Per Unit Area (Weight) of Fabric

ASTM D3786/D3786M:2018	Standard Test Method for Bursting Strength of Textile Fabrics-Diaphragm Bursting Strength Tester Method
ASTM D3790:17	Standard Test Method for Volatile Matter (Moisture) of Leather by Oven Drying
ASTM D5034:2021	Standard Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)
ASTM D5035:2011(2019)	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)
ASTM D5053:03 (2023)	Standard Test Method for Colorfastness of Crocking of Leather
ASTM D5963:22	Standard Test Method for Rubber Property—Abrasion Resistance (Rotary Drum Abrader)
ASTM F1816:2018	Standard Safety Specification for Drawstrings on Children's Upper Outerwear
BS 5131-3.7:1991	Methods of test for footwear and footwear materials. Uppers, textiles, and threads Breaking strength of shoelaces
BS 5131-5.13:1980	Methods of test for footwear and footwear materials. Testing of complete footwear Measurement of the strength of stitched seams in upper and lining materials
BS 5441:1988+A1:2019	Methods of test for knitted fabrics
BS EN 12770:2000	Footwear - Test Methods for Outsoles - Abrasion Resistance
BS EN 14682:2014	Safety of children's clothing. Cords and drawstrings on children's clothing. Specifications
GS 1269	Methods for Determination of Number of Threads in Woven Fabrics
ISO 34-1:2022 Method A	Rubber, vulcanized or thermoplastic Determination of tear strength Part 1: Method A Trouser test pieces
ISO 48-4:2018	Rubber, vulcanized or thermoplastic Determination of hardness Part 4: Indentation hardness by durometer method (Shore hardness)
ISO 105 X12:2016	Textiles – Tests for Colour fastness – Part X12: Colour fastness to rubbing
ISO 868:2003	Plastics and ebonite Determination of indentation hardness by means of a durometer (Shore hardness)
ISO 2589:2016	Leather Physical and mechanical tests Determination of thickness
ISO 2781:2018	Rubber, vulcanized or thermoplastic Determination of density
ISO 3376:2020	Leather Physical and mechanical tests Determination of tensile strength and percentage elongation
ISO 3377-1:2011	Leather Physical and mechanical tests Determination of tear load Part 1: Single edge tear

ISO 3377-2:2016	Leather Physical and mechanical tests Determination of tear load Part 2: Double edge tear
ISO 3759:2011	Textiles – Preparation, marking and measuring of fabric specimens and garments in tests for determination of dimensional change
ISO 3801(Method 5):1977	Textiles – Woven fabrics – Determination of mass per unit length and mass per unit area
ISO 4098:2018	Leather Chemical tests Determination of water-soluble matter, water-soluble inorganic matter and water-soluble organic matter
ISO 4649:2017	Rubber, vulcanized or thermoplastic Determination of abrasion resistance using a rotating cylindrical drum device
ISO 4674-1:2016 Method B	Rubber- or plastics-coated fabrics Determination of tear resistance Part 1: Constant rate of tear methods
ISO 4684:2005	Leather Chemical tests Determination of volatile matter
ISO 5077:2007	Textiles – Determination of dimensional change in washing and drying
ISO 5402-1:2022	Leather Determination of flex resistance Part 1: Flexometer method
ISO 6330:2021	Textiles – Domestic washing and drying procedures for textile testing
ISO 7211-2:1984	Textiles – Woven fabrics – Construction – Methods of analysis – Part 2: Determination of number of threads per unit length
ISO 7211-5:2020	Textiles – Methods for analysis of woven fabrics construction – Part 5: Determination of linear density of yarn removed from fabric
ISO 8559-1:2017	Size designation of clothes – Part 1: Anthropometric definitions for body measurement
ISO 8559-2:2017	Size designation of clothes – Part 2: Primary and secondary dimension indicators
ISO 11640:2018	Leather Tests for colour fastness Colour fastness to cycles of to-and-fro rubbing
ISO 11641:2012	Leather Tests for colour fastness Colour fastness to perspiration
ISO 11642:2012	Leather Tests for colour fastness Colour fastness to water
ISO 13287:2019	Personal protective equipment Footwear Test method for slip resistance
ISO 13934-1:2013	Textiles – Tensile properties of fabrics – Part 1: Determination of maximum force and elongation at maximum force using the strip method
ISO 13934-2:2014	Textiles – Tensile properties of fabrics – Part 2: Determination of maximum force using the grab method
ISO 13935-1:2014	Textiles – Seam tensile properties of fabrics and made-up textile articles – Part 1: Determination of maximum force to seam rupture using the strip method

ISO 13935-2:2014	Textiles – Seam tensile properties of fabrics and made-up textile articles – Part 2: Determination of maximum force to seam rupture using the grab method
ISO 13936-1:2004	Textiles – Determination of the slippage resistance of yarns at a seam in woven fabrics – Part 1: Fixed seam opening method
ISO 13936-2:2004	Textiles – Determination of the slippage resistance of yarns at a seam in woven fabrics – Part 2: Fixed load method
ISO 13936-3:2005	Textiles – Determination of the slippage resistance of yarns at a seam in woven fabrics – Part 3: Needle clamp method
ISO 13937-1:2000	Textiles – Tear properties of fabrics – Part 1: Determination of tear force using ballistic pendulum method (Elmendorf)
ISO 13938-2:2019	Textiles – Bursting properties of fabrics – Part 2: Pneumatic method for determination of bursting strength and bursting distension
ISO 16322-1:2005	Textiles – Determination of spirality after laundering – Part 1: Percentage of wale spirality change in knitted garments
ISO 16322-2:2021	Textiles – Determination of spirality after laundering – Part 2: Woven and knitted fabrics
ISO 16322-3:2021	Textiles – Determination of spirality after laundering – Part 3: Woven and knitted garments
ISO 17694:2016	Footwear Test methods for uppers and lining Flex resistance
ISO 17696:2004	Footwear Test methods for uppers, linings and insocks Tear strength
ISO 17697:2016	Footwear Test methods for uppers, lining and insocks Seam strength
ISO 17700:2019 Method A & C	Footwear Test methods for upper components and insocks Colour fastness to rubbing and bleeding
ISO 17700:2019 Method D	Footwear Test methods for upper components and insocks Colour fastness to rubbing and bleeding
ISO 17706:2003	Footwear Test methods for uppers Tensile strength and elongation
ISO 17707:2005	Footwear Test methods for outsoles Flex resistance
ISO 17708:2018	Footwear Test methods for whole shoe Upper sole adhesion
ISO 20344:2021 Section 5.2	Footwear-Determination of upper/outsole and sole interlayer bond strength
ISO 20344:2021 Section 6.1	Footwear-Determination of thickness of upper
ISO 20344:2021 Section 6.3	Footwear-Determination of tear strength of the upper, lining and/or tongue

ISO 20344:2021 Section 6.4	Footwear-Determination of the tensile properties of the upper material
ISO 20344:2021 Section 6.12	Footwear-Determination of abrasion resistance of lining and Insock
ISO 20344:2021 Section 7.3	Footwear-Determination of Abrasion resistance of insole
ISO 20344:2021 Section 8.2.3	Footwear-Outsole thickness and cleat height
ISO 20344:2021 Section 8.3	Footwear-Determination of tear strength of outsole
ISO 20344:2021 Section 8.4	Footwear-Determination of outsoles - Abrasion resistance
ISO 20344:2021 Section 8.5 & 8.6	Footwear Test methods for outsoles rigidity test & Flex resistance
ISO 20433:2012	Leather Tests for colour fastness Colour fastness to crocking
ISO 20870:2017	Footwear Ageing conditioning
ISO 20871:2018	Footwear Test methods for outsoles Abrasion resistance
ISO 20872:2018	Footwear Test methods for outsoles Tear strength
ISO 20873:2018	Footwear Test methods for outsoles Dimensional stability
ISO 22198:2006	Textiles – Fabrics – Determination of width and length
ISO 22651:2002	Footwear Test methods for insoles Dimensional stability
ISO 22654:2002	Footwear Test methods for outsoles Tensile strength and elongation
ISO 24267:2020	Footwear Determination of coefficient of friction for footwear and sole components test methods
ISO 32100:2018	Rubber- or plastics-coated fabrics Physical and mechanical tests Determination of flex resistance by the flexometer method
SATRA TM55:1999	Flexing resistance of upper materials - Bally flexometer
SATRA TM134:2010	Density of materials by volume displacement
SATRA TM144:2021	Friction (slip resistance) of footwear and floorings
SATRA TM161:2004	Bennewart flex test - resistance to cut growth on flexing
SATRA TM167:2017	Colour fastness to rubbing - Crockmeter test
SATRA TM173:2021	Colour fastness to rubbing - reciprocating method

SATRA TM174:2016	Abrasion resistance - rotating drum method
SATRA TM193:2004	Abrasion resistance of leather
SATRA TM205:2017	Hardness of rubber, polyurethane, and plastics - durometer method
SATRA TM335:2018	Colour fastness to water or perspiration (petri-dish method)
Chemical	
AATCC 15:2021e	Test Method for Colorfastness to Perspiration
AATCC 20:2021	Test Method for Fiber Analysis: Qualitative
AATCC 20 A:2021	Test Method for Fiber Analysis: Quantitative
AATCC 81:2022	Test Method for pH of the Water-Extract from Wet Processed Textiles
AATCC 104:2010 (2014) e2	Colorfastness to Water Spotting
AATCC 106:2009e (2013) e3	Test Method for Colorfastness to Water: Sea
AATCC 107:2022	Colorfastness to Water
AATCC 112:2020	Test Method for Formaldehyde Release from Fabric: Sealed Jar
ASTM D1475	Standard Test Method for Density of Liquid Coatings, Inks, and Related Products
ASTM D2369	Standard Test Method for Volatile Content of Coatings
ASTM F2923:2020	Standard Specification for Consumer Product Safety for Children's Jewelry
ASTM F2999:2019	Standard Consumer Safety Specification for Adult Jewelry
CPSC-CH-E1001-08.3:2012	Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)
CPSC-CHE1002-08.3:2012	Standard Operating Procedure for Determining Total Lead (Pb) in Nonmetal Children's Products
CPSC-CH-E1003-09.1:2011	Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings
CPSC-CH-E1004-11:2011	Standard Operating Procedure for Determining Cadmium (Cd) Extractability from Children's Metal Jewelry
DIN 53160-1:2010	Determination of The Colorfastness of Articles for Common Use – Part 1: Test with Artificial Saliva
DIN 53160-2:2010	Determination of the Colorfastness of articles for common use – Part 2: Test with artificial sweat

DIN EN 17137:2019	Textiles – Determination of The Content of Compounds Based on Chlorobenzenes and Chlorotoluene's
EN 1122:2001	Plastics – Determination of cadmium – Wet decomposition method
EN 1811:2023	Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin
EN 12472:2020	Method for the simulation of accelerated wear and corrosion for the detection of nickel release from coated items
EN 16711-1:2015	Textiles – Determination of metal content Determination of metals using microwave digestion
EN 16711-2:2015	Textiles – Determination of metal content Determination of metals extracted by acidic artificial perspiration solution
ISO 105 C06:2010	Textiles – Tests for Colour fastness – Part C06: Colour fastness to domestic and commercial laundering
ISO 105 E01:2013	Textiles – Tests for Colour fastness – Part E01: Colour fastness to water
ISO 105 E02:2013	Textiles – Tests for colour fastness – Part E02: Colour fastness to sea water
ISO 105 E04:2013	Textiles – Tests for Colour fastness – Part E04: Colour fastness to perspiration
ISO 105 E07:2010	Textiles – Tests for colour fastness – Part E07: Colour fastness to spotting: Water
ISO 1833-1:2020	Textiles – Quantitative chemical analysis – Part 1: General principles of testing
ISO 1833-2:2020	Textiles – Quantitative chemical analysis – Part 2: Ternary fibre mixtures
ISO 1833-3:2019	Textiles – Quantitative chemical analysis – Part 3: Mixtures of acetate with certain other fibres (method using acetone)
ISO 1833-4:2017	Textiles – Quantitative chemical analysis – Part 4: Mixtures of certain protein fibres with certain other fibres (method using hypochlorite)
ISO 1833-5:2006	Textiles – Quantitative chemical analysis – Part 5: Mixtures of viscose, cupro or modal and cotton fibres (method using sodium zincate)
ISO 1833-6:2018	Textiles – Quantitative chemical analysis – Part 6: Mixtures of viscose, certain types of cupro, modal or lyocell with certain other fibres (method using formic acid and zinc chloride)
ISO 1833-7:2017	Textiles – Quantitative chemical analysis – Part 7: Mixtures of polyamide with certain other fibres (method using formic acid)
ISO 1833-8:2006	Textiles – Quantitative chemical analysis – Part 8: Mixtures of acetate and triacetate fibres (method using acetone)

ISO 1833-9:2019	Textiles – Quantitative chemical analysis – Part 9: Mixtures of acetate with certain other fibres (method using benzyl alcohol)
ISO 1833-10:2019	Textiles – Quantitative chemical analysis – Part 10: Mixtures of triacetate or polylactide with certain other fibres (method using dichloromethane)
ISO 1833-11:2017	Textiles – Quantitative chemical analysis – Part 11: Mixtures of certain cellulose fibres with certain other fibres (method using sulfuric acid)
ISO 1833-12:2019	Textiles – Quantitative chemical analysis – Part 12: Mixtures of acrylic, certain modacrylics, certain chlorofibres, certain elastane fibres with certain other fibres (method using dimethylformamide)
ISO 1833-13:2019	Textiles – Quantitative chemical analysis – Part 13: Mixtures of certain chlorofibres with certain other fibres (method using carbon disulfide/acetone)
ISO 1833-14:2019	Textiles – Quantitative chemical analysis – Part 14: Mixtures of acetate with certain other fibres (method using glacial acetic acid)
ISO 1833-15:2019	Textiles – Quantitative chemical analysis – Part 15: Mixtures of jute with certain animal fibres (method by determining nitrogen content)
ISO 1833-16:2019	Textiles – Quantitative chemical analysis – Part 16: Mixtures of polypropylene fibres with certain other fibres (method using xylene)
ISO 1833-17:2019	Textiles – Quantitative chemical analysis – Part 17: Mixtures of cellulose fibres and certain fibres with chlorofibres and certain other fibres (method using concentrated sulfuric acid)
ISO 1833-18:2020	Textiles – Quantitative chemical analysis – Part 18: Mixtures of silk with wool or other animal hair (method using sulfuric acid)
ISO 1833-19:2006	Textiles – Quantitative chemical analysis – Part 19: Mixtures of cellulose fibres and asbestos (method by heating)
ISO 1833-20:2018	Textiles – Quantitative chemical analysis – Part 20: Mixtures of elastane with certain other fibres (method using dimethylacetamide)
ISO 1833-21:2019	Textiles – Quantitative chemical analysis – Part 21: Mixtures of chlorofibres, certain modacrylics, certain elastanes, acetates, triacetates with certain other fibres (method using cyclohexanone)
ISO 1833-22:2020	Textiles — Quantitative chemical analysis — Part 22: Mixtures of viscose or certain types of cupro or modal or lyocell with flax fibres (method using formic acid and zinc chloride)
ISO 1833-24:2010	Textiles – Quantitative chemical analysis – Part 24: Mixtures of polyester and certain other fibres (method using phenol and tetrachloroethane)
ISO 3071:2020	Textiles – Determination of pH of aqueous extract
ISO 4045:2018	Leather – Chemical tests – Determination of pH and difference figure

ISO 14184-1:2011	Textiles – Determination of formaldehyde – Part 1: Free and hydrolyzed formaldehyde (water extraction method)
ISO 14184-2:2011	Textiles – Determination of formaldehyde – Part 2: Released formaldehyde (vapor absorption method)
ISO 14362-1:2017	Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibers
ISO 14362-3:2017	Textiles – Methods for determination of certain aromatic amines derived from azo colorants – Part 3: Detection of the use of certain azo colorants, which may release 4-aminoazobenzene
ISO 17072-1:2019	Leather Chemical determination of metal content Part 1: Extractable metals
ISO 17072-2:2022	Leather Chemical determination of metal content Part 2: Total metal content (Inclusion: Elements - Arsenic, Lead, Cadmium, Mercury, Chromium)
ISO 17075-1:2017	Leather – Chemical determination of chromium (VI) content in leather – Part 1: Colorimetric method
ISO 17226-2:2018	Leather – Chemical determination of formaldehyde content – Part 2: Method using colorimetric analysis
ISO 17234-1:2020	Leather — Chemical tests for the determination of certain azo colourants in dyed leathers — Part 1: Determination of certain aromatic amines derived from azo colourants
ISO 17234-2:2011	Leather – Chemical tests for the determination of certain azo colorants in dyed leathers – Part 2: Determination of 4-aminoazobenzene
ISO/TS 16179:2012	Footwear — Critical substances potentially present in footwear and footwear components — Determination of organotin compounds in footwear materials
PL-SOP-001 Based on ISO 11890-1	Determination of Volatile Organic Compound (VOC) in Paint and Related Products by Gravimetric method
PL-SOP-002 Based on ISO 11890-2	Determination of Volatile Organic Compound (VOC) and Semi Volatile Organic Compound (SVOC) in Paint and Related Products by Gas-chromatographic method
PL-SOP-003 Based on ASTM E1613	Determination of Heavy Metals in Paint and Related Products by ICP-OES 1. Lead (Pb), 2. Cadmium (Cd), 3. Arsenic (As), 4. Mercury (Hg), 5. Chromium (Cr)
PL-SOP-004 Based on ASTM D3717	Determination of Antimony (Sb) in Paint and Related Products by ICP-OES
PL-SOP-005 Based on ISO 3856-5	Determination of Hexavalent Chromium in Paint and Related Products by Spectrophotometer
PL-SOP-006	Determination of Tin derivative in Paint and Related Products by GC-MS Tributyltin (TBT), Triphenyltin (TPT)

PL-SOP-007 Based on ASTM D6191	Determination of Formaldehyde in Paint and Related Products by Spectrophotometer
PL-SOP-008 Based on ASTM D3257	Determination of Aromatic Hydrocarbon in Paint and Related Products by GC-FID
PL-SOP-009 Based on ASTM D4457	Determination of Halogenated Hydrocarbon in Paint and Related Products by GC-FID
PL-SOP-010 Based on ASTM D4017	Determination of Water content in Paint and Related Products by Karl Fischer Method
PL-SOP-011 Based on ASTM D2196-	Determination of Viscosity in Paint and Related Products
SNV 195651:2015	Textiles – Determination of the development of smells of finishings (sensory test)
TL-SOP-001 (Reference Method: ISO 14389:2022)	Textiles – Determination of the phthalate content – Tetrahydrofuran method
TL-SOP-002 (Reference Method: BVL B 82.02-8:2001-06, ISO 17070:2015)	Analysis of consumer goods – Detection and determination of pentachlorophenol in consumer goods, especially leather and textiles (reference method)
TL-SOP-003 (Reference Method EN 17134-2, ISO 22517)	Determination of Preservatives (Biocides/ Pesticides)
TL-SOP-005 (Reference method ISO 16373-2, ISO 16373-3, GSO 1956-2009: Table 3, Table 8)	Determination of allergenic and carcinogenic dyestuffs