GLOBAL ACCEPTANCE

BAB

BANGLADESH ACCREDITATION BOARD

ACCREDITATION CERTIFICATE

Issued under the authority of Bangladesh Accreditation Act, 2006
by Bangladesh Accreditation Board (BAB), Ministry of Industries to

Hohenstein Laboratories Bangladesh Limited, Dhaka

122/1 Love Road, Tejgaon Industrial Area

Dhaka-1208, Bangladesh

This is to certify that this

Testing Laboratory
is accredited in accordance with the international standard

ISO/IEC 17025:2017
in respect of the associated scope, subject to the terms and conditions governing the relevant conformity assessment body (CAB) accreditation.

CERT. NO. 01.053.18

BAB

BANGLADESH ACCREDITATION BOARD
Accredited for ISO/IEC 17025:2017

Certificate Number	:	**01.053.18**
Accreditation Date	:	**25 October 2018**
Date of Issuance	:	**25 October 2018**
Date of Expiration	:	**24 October 2021**

GLOBAL BAB ACCREDITED ACCEPTANCE

Md. Monwarul Islam
Director General

This certificate must be returned on request; reproduction must follow BAB guidelines. For the specific scopes to which this accreditation applies, please refer to the Directory of CABs at BAB website.

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SCOPE OF ACCREDITATION

(For Testing Laboratory)

CAB Name & Address: **Hohenstein Laboratories Bangladesh Limited, Dhaka, 122/1 Love Road, Tejgaon Industrial Area, Dhaka-1208, Bangladesh.**

Accreditation Standard: **ISO/IEC 17025:2017** **Accreditation Date:** 25 Oct 2018
Certificate Number: 01.053.18 **Issued on:** 25 Oct 2018
Last Amended on: 5 December 2019 **Valid until:** 24 Oct 2021
Amendment no: 01

S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
Field: Mechanical Testing				
01	Textiles, Garment & Accessories	*Colour fastness to artificial light: Xenon arc fading lamp test*	*DIN EN ISO 105 B02-2014-11,AATCC 16 (Option 3)-2014*	BWS 1 to 8 Grade 1 to 5
02	Textiles, Garment & Accessories	*Colour fastness to light of textiles wetted with artificial perspiration*	*DIN EN ISO 105 B07-2009-10,AATCC 125:2013*	BWS 1 to 8 Grade 1 to 5
03	Textiles, Garment & Accessories	*Colour fastness to water*	*DIN EN ISO 105 E01-2013-06, AATCC 107-2013,*	1 to 5 grade
04	Textiles, Garment & Accessories	*Colour fastness to sea water*	*DIN EN ISO 105 E02-2013, AATCC 106-2013.*	1 to 5 grade
05	Textiles, Garment & Accessories	*Colour fastness to chlorinated water (swimming-pool water)*	*DIN EN ISO 105 E03-2010, AATCC 162:2011*	1 to 5 grade
06	Textiles, Garment & Accessories	*Colour fastness to perspiration*	*DIN EN ISO 105 E04-2013-08, AATCC 15-2013.*	1 to 5 grade
07	Textiles, Garment & Accessories	*Colour fastness to spotting: Acid*	*DIN EN ISO 105 E05:2010, AATCC 6-2016.*	1 to 5 grade
08	Textiles, Garment & Accessories	*Colour fastness to spotting: Alkali*	*DIN EN ISO 105 E06-2006-10, AATCC 6-2011,*	1 to 5 grade
09	Textiles, Garment & Accessories	*Colour fastness to spotting: Water*	*DIN EN ISO 105 E07-2010-08, AATCC 104-2014,*	1 to 5 grade
10	***Textiles, Garment & Accessories***	*Colour fastness to washing*	*DIN EN ISO 105 C06-2010, DIN EN ISO 105 C08-2010-08* DIN EN ISO 105 C09 :2003+A1:2007 *DIN EN ISO 105 C10:2007 AATCC 61-2013.*	1 to 5 grade
11	***Textiles, Garment & Accessories***	*Colour fastness to dry cleaning of using perchloroethylene solvent*	*DIN EN ISO 105 D01-2010-10, AATCC 132-2013,*	1 to 5 grade

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12	***Textiles, Garment & Accessories***	*Colour fastness to artificial saliva and sweat*	*DIN 53160-1 &2: 2010, STANDARD 100 by OEKO-TEX®*	1 to 5 grade
13	***Textiles, Garment & Accessories***	*Colour fastness to bleaching: Hypochlorite/ Peroxide*	*DIN EN ISO 105-N01-1993-03, DIN EN ISO 105-N02-1995-05*	1 to 5 grade
14	***Textiles, Garment & Accessories***	*Colour fastness to organic solvents*	*DIN EN ISO 105 X05-1997-05*	1 to 5 grade
15	***Textiles, Garment & Accessories***	*Migration of textile colours into polyvinyl chloride coatings*	*DIN EN ISO 105-X10:1995-12*	1 to 5 grade
16	***Textiles, Garment & Accessories***	*Colour fastness to rubbing / Crocking*	*DIN EN ISO 105 X12-2016-11, AATCC 8-2016,*	1 to 5 grade
17	***Textiles, Garment & Accessories***	*Colour fastness to the potential to phenolic yellowing*	*DIN EN ISO 105 X18-2007*	1 to 5 grade
18	***Textiles, Garment & Accessories***	*Colour fastness to dye Transfer in storage/ Sublimation in storage*	*DIN 54056- 2017 AATCC 163-2013*	1 to 5 grade
19	***Textiles, Garment & Accessories***	*Determination of colour fastness of dyeing and prints to bleaching: hypochlorite (mild)*	*DIN 54034:2018*	1 to 5 grade
20	***Textiles, Garment & Accessories***	*Colour Difference Assessment*	*Visual Method (Per sample) Computer Spectrophotometric Analysis*	1 to 5 grade
21	***Textiles, Garment & Accessories***	*Presence of odour*	*GB 18401:2010 clause 6.7, SNV195651-1968)*	Qualitative
22	***Textiles, Garment & Accessories***	*Absorbency of textile*	*AATCC 79-2014*	0 to 60 sec
23	***Textiles, Garment & Accessories***	*Threads per unit length/ Fabric Count (Stitch density)*	*ASTM D 3775:2017 BS EN 1049-2:1994 (DIN) ISO 7211/2:1984 ASTM D 3887:2008*	2 to 100 per cm

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			BS 5441:1988	
24	***Textiles, Garment & Accessories***	*Yarn number based on short length specimens*	*ASTM D 1059:17,* *ISO 7211/5:1984*	1s-120s Ne
25	***Textiles, Garment & Accessories***	*Mass per unit area & unit length of fabric*	*BS 2471:2005* *ASTM D 3776/D 3776 M:09a (2017) Option-C* *ISO 3801- Method 5:1977* *DIN EN 12127:1997*	5 GSM-500 GSM Full range: GUL
26	***Textiles, Garment & Accessories***	*Fabric width*	*ISO 22198:2006* *ASTM D 3774:2018* *DIN EN 1773:1997*	1 cm -300 cm
27	***Textiles, Garment & Accessories***	*Textiles - Test method for nonwovens - Part 1: Determination of mass per unit area*	*DIN EN 29073-1 1992-08*	1 GSM-1000 GSM
28	***Textiles, Garment & Accessories***	*Textiles – Test method for nonwovens – Part 3: Determination of tensile strength and elongation*	*DIN EN 29073-3 1992-08*	10 N TO 5000 N
29	***Textiles, Garment & Accessories***	*Pilling Resistance* *-Pilling Box Method* *-Martindale Method* *-Random Tumbler Method*	*DIN EN ISO 12945-1:2001* *DIN EN ISO 12945-2:2000* *DIN EN ISO 12945-3:2014* *ASTM D3512/D 3512M-16*	1 to 5 Grade
30	***Textiles, Garment & Accessories***	*Abrasion resistance (Martindale)*	*DIN EN ISO 12947-1:2007* *DIN EN ISO 12947-2:2017* *ASTM D 4966:12* *DIN EN ISO 12947-3:2007* *DIN EN ISO 12947-4:2007*	-Up to 99999 rubs for breakdown -Up to 30% for weight loss - 1 to 5 Grade
31	***Textiles, Garment & Accessories***	*Breaking strength and elongation (Strip Test)*	*DIN EN ISO 13934-1:2013* *ASTM D 5035-11*	10 N to 5000 N
32	***Textiles, Garment***	*Breaking strength and*	*DIN EN ISO 13934-2:2014*	10 N to 5000 N

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	&Accessories	*elongation (Grab Test)*	*ASTM D 5034-09*	0-200%
33	***Textiles, Garment & Accessories***	*Seam Properties* *-Seam Strength* *-Seam Slippage*	*DIN EN ISO 13935-1:2014* *DIN EN ISO 13935-2:2014* *DIN EN ISO 13936-1:2004* *DIN EN ISO 13936-2:2004* *BS 3320-1988* *ASTM D434-1995* *ASTM D 1683/D1683M-17e1*	10 N to 5000 N 0-80% Up to 10mm
34	***Textiles, Garment & Accessories***	*Tearing strength of fabrics* *-Elmendrof* *- Single Rip* *- Double tear*	*DIN EN ISO 13937-1:2000* *ASTM D 1424-2013* *DIN EN ISO 13937-2:2000* *ASTM D 2261-17* *BS 4303-1968;* *ASTMD 5587* *DIN EN ISO 13937-3:2000* *DIN EN ISO 13937-4:2000*	Elmendorf= 1.2N-128N Others= 1 N to 5000 N
35	***Textiles, Garment & Accessories***	*Bursting strength* *-Pneumatic* *-Ball Burst*	*DIN EN ISO 13938-2:1999* *ASTM D3786/D 3786M-18* *ASTM D3787-16*	(200-10000) KPa 10N-5000N
36	***Zipper & Toys***	*Slide fasteners (Zips)- Specification*	*BS 3084;2006* *ASTM D 2061:07 (2013)* *16 CFR 1500:53* *DIN EN 16732:2016*	1 Kgf – 500 Kgf (9.81 N to 4905 N) Up to 99999 cycles
37	***Textiles, Garment & Accessories***	*Resistance to Unsnapping of Snap Fasteners*	*ASTM D 4846:96 (2016)*	1 Kgf – 60 kgf (9.81 N – 590 N)
38	***Textiles, Garment & Accessories***	*Stretch and Recovery/ Tension and Elongation of Elastic fabics*	*BS EN /DIN EN /EN 14704-1:2005,* *ASTM D 4964:96 (2016),* *BS 4952:1992*	1 to 200%

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			ASTM D 3107	
39	***Textiles, Garment & Accessories***	*Resistance to surface wetting (Spray-test)*	*ISO/DIN/BS EN ISO 4920:2012* *BSEN 24920:1992 (2012)* *AATCC 22:2017*	ISO 1 to ISO 5 (0 to 100)
40	***Textiles, Garment, Accessories and Toys***	*Torque Test*	*EN 71 Part 1-Clause-8.3:2018,* *16 CFR 1500.51/52/53*	Qualitative
41	***Textiles, Garment & Toys***	*Attachment/Pull off strength of Snap/Button/Rivets*	*PD CEN/TR 16792:2014,* *ASTM F 963-17,* *16 CFR 1500.53,* *EN 711: 2014+A1:2018,* *BS EN 71 Part-1:2018*	1 N -600 N (0.1 Kg – 60 Kg)
42	***Textiles, Garment & Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children***	*Small Parts- Choking Hazard Test (Small part cylinder of 31.7 mm inner diameter0*	*EN/BS EN 71 Part 1-Clause-8.2:2018,* *16 CFR 1501,* *ASTM F 963:17, Sec-4.6*	Qualitative
43	***Textiles, Garment & Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children***	*Determination of Sharp Points Under a Force of 4.45 N (1 Pound)*	*EN/BS EN 71 Part 1-Clause-8.12:2018,* *16 CFR 1500.48,* *ASTM F 963:17, Sec-4.9*	Qualitative
44	***Textiles, Garment & Toys products***	*Determination of Sharp Edges Under a Force of up to 8.90 N*	*EN/BS EN 71 Part 1-Clause-*	Qualitative

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	(Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children	*(1.35 Pound)*	*8.11:2018,* *16 CFR 1500.49,* *ASTM F 963:17, Sec-4.7*	
45	***Textiles, Garment & Toys products***	*Safety of children's clothing. Cords and Drawstrings on children's clothing Specification.*	*EN 14682:2014,* *ASTM F 1816:97 (2009)*	Qualitative
46	***Textiles, Garment & Accessories***	*Dimensional Stability to washing and drying*	*DIN EN ISO 3759:2011* *DIN EN ISO 5077:2008* *DIN EN ISO 6330:2013* *AATCC 135:2018* *AATCC150:2018*	Elongation & shrinkage 0 to 50%
47	***Textiles, Garment & Accessories***	*Dimensional Stability to Dry Cleaning*	*AATCC 158:2016*	Elongation & shrinkage 0 to 50%
48	***Textiles, Garment & Accessories***	*Appearance after fabric after repeated home laundering*	*AATCC 124:2018,* *ISO 7768:2009*	Grade: SA-1 to SA-5
49	***Textiles, Garment & Accessories***	*Smoothness of seams in fabrics after repeated home laundering*	*AATCC 88B:2018,* *ISO 7770:2009* *BS EN ISO 7770:2009*	Grade: SS-1 to SS-5
50	***Textiles, Garment & Accessories***	*Retention of creases in fabrics after repeated home laundering*	*AATCC 88C: 2018,* *ISO 7769:2009* *BSEN ISO 7769:2009*	Grade: CR-1 to CR-5
51	***Textiles, Garment & Accessories***	*Appearance of apparel and other textile products after repeated home laundering*	*DIN EN ISO 15487:2018,* *AATCC 143:2018,*	Grade: SA-1 to SA-5 Grade: SS-1 to SS-5 Grade: CR-1

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				to CR-5
52	***Textiles, Garment & Accessories***	*Appearance (visual assessment) after laundering*	***In-house method*** *(PW/SOP-QM-11.BD.02.A4.039)*	1 to 5 Grade Spirality: Up to ±50%
53	***Textiles, Garment & Accessories***	*Spirality / Skewing of fabrics & garments*	*ISO 16322-1:2005,* *ISO 16322-2: 2007,* *ISO 16322-3:2005,* *AATCC 179:2017*	Up to ±50%
54	***Textiles, Garment & Accessories***	*Bow & Skewness*	*ASTM D3882:2016,*	0 to ± 50%
55	***Textiles, Garment & Accessories***	*Durability Wash of garment/Print/Motif/Applique/ Embroidery*	*In-house method (PW/SOP-QM-11.BD.02.A4.038)*	Qualitative
56	***Textiles, Garment & Accessories***	*Fibre analysis-Qualitative & quantitative*	*ISO 1833,* *ISO 5088,* *BS 4407,* *ASTM D 629,* *AATCC 20-2018,* *AATCC 20A-2018,* *FZ/T 01057-2007,* *GB/T 2910,* *EU 1007/2011,* *AS 2001.7-2005*	Up to 100 %
57	***Textiles, Garment & Accessories***	*Flammability of children´s sleepwear (up to 14 years) in the USA*	*16 CFR Part 1615 / 1616*	1 to 10 Inch
58	***Textiles, Garment & Accessories***	*Flammability of Apparels*	*CPSC 16 CFR Part 1610,* *ASTM D 1230-17*	Up to 100 %
59	***Textiles, Garment & Accessories***	***Flammability*** *of Textile Clothing & Nightwear*	*BS EN 1103:2006,* *DIN EN ISO 14878:2007 /AC:2009,* *BS EN ISO 6940:2004,*	1-3600 Sec

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			BS EN ISO 6941:2004 *BS 5438:1976 Test 1, 2 & 3,* *BS 5722:1984 Test 3,* *BS EN 1101:2005* *BS EN 1102:2016,*	
60	***Textiles, & Accessories***	*Test methods foraccessories: Metallic accessories — Corrosion resistance.*	*ISO 22775:2004*	Qualitative
61	***Textiles, Garment & Accessories***	*Fiber Fineness*	*ISO 137 / DIN 53811*	≤ 1 dtex
62	***Textiles, Garment & Accessories***	*Determination of Moisture drying rate*	*ISO 17617*	≤ 45 Mins.
63	***Textiles, Garment & Accessories***	*Determination of water absorption velocity of textile fabrics (capillary rise method)*	*DIN 53924*	50 mm / 180 Sec.
Field: Chemical Testing				
64	***Paint and other similar surface coatings***	*Determination of Lead content by ICP-MS*	*SOP-QM-11 BD 02 A1 027 (according to CPSC-CH-E1003-09.1 ;2011-02; STANDARD 201 by OEKO-TEX® M-21 and ML-21)*	LOD=5 mg/kg
65	***Metal children's products (including children's metal jewelry)***	*Determination of Lead content by ICP-MS*	*SOP-QM-11 BD 02 A1 027 (according to CPSC-CH-E1003-09.1 ;2011-02; STANDARD 201 by OEKO-TEX® M-21 and ML-21)*	LOD=5 mg/kg
66	***Non-metalchildren'sproducts***	*Determination of Lead content by ICP-MS*	*SOP-QM-11 BD 02 A1 027 (according to CPSC-CH-E1003-09.1 ;2011-02; STANDARD 201 by OEKO-TEX® M-21 and ML-21)*	LOD=5 mg/kg
67	***Plasticized component part of***	*Standard Operating Procedure for Determination*	*SOP-QM-11 BD 02 A3 002 (according to CPSC-CH-*	LOD=50 mg/kg

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	achildren's toyor child care article	*of Phthalates*	*C1001-09.4 (2018) and DIN EN ISO 14389:2014 ; STANDARD 201 by OEKO-TEX® M-18 and ML-18 and determination of tris(2-chlorethyl)phosphate, bisphenol A and selected Siloxanes)*	
68	***Metal products***	*Determination of total lead and cadmium in metallic consumer products with the help of ICP-MS*	*SOP–QM 11 BD 02 A1 026 (according to HC Part B : Method C-02.4 2013-06)*	LOD=5 mg/kg
69	***Textile materials, textile products Leather materials, shoes leather***	*Analysis of commodity goods - Methods for determination of certain aromatic amines in textiles derived from azo colorants - Part 1: Detection of the use of certain azo colorants accessible with or without extraction]*	*SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1, DIN EN 14362-3, DIN EN ISO 17234-1 and DIN EN ISO 17234-2 ; STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX® M-EP-1)*	LOD=5 mg/kg
70	***Textile materials, textile products Leather materials, shoes leather***	*Analysis of commodity goods - Methods for determination of certain azo colorants in textiles - Part 3: Detection of the use of certain azo colorants, which release 4-Aminoazobenzene*	*SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1, DIN EN 14362-3, DIN EN ISO 17234-1 and DIN EN ISO 17234-2; STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX® M-EP-1)*	LOD=5 mg/kg
71	***Textile materials, textile products Leather materials, shoes leather***	*Analysis of commodity goods - Methods for determination of certain azo colorants in dyed leather - Part 1: Determination of aromatic*	*SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1, DIN EN 14362-3, DIN EN ISO 17234-1 and DIN EN ISO 17234-2;*	LOD=5 mg/kg

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		amines in azo colorants	*STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX® M-EP-1)*	
72	***Textile materials, textile products Leather materials, shoes leather***	*Analysis of commodity goods - Methods for determination of certain azo colourants in dyed leather part 2: determination of 4Aminoazobenzene*	*SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1, DIN EN 14362-3, DIN EN ISO 17234-1 and DIN EN ISO 17234-2; STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX® M-EP-1)*	LOD=5 mg/kg
73	***Textile***	*Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)*	*SOP-QM-11 BD 02 A5 006 (according to JIS L 1041-2011 or Law 112 (Acetyl acetone method))*	LOD=10 mg/kg
74	***Textile and Leather***	*Determination of pH value in aqueous extract of textiles and leather.*	*SOP-QM-11 BD 02 A5 013 (according to DIN EN ISO 3071:2006, DIN EN ISO 4045:2018)*	0 – 14
75	***Non-coated metal materials***	*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*	*SOP-QM 11BD 02 A1 025 (according to DIN EN 1811 associated with DIN EN 12472 and subsequent measurement according to DIN EN ISO 17294-2)*	LOD = 0.1 $\mu g/cm^2$/week
76	***Textile***	*Determination of Extractable Heavy Metals (As, Pb, Cd, Co, Ni, Cr, Cu, Hg,Mn,Zn and Sb) in artificial acidic sweat solution by ICP-MS*	*SOP-QM-11 BD 02 A1 029 (according to DIN EN 16711-2:2016 Textiles; STANDARD 201 by OEKO-TEX® M-10 & ML-10)*	LOD- As, Pb, Cd- 0.05 mg/kg , Cr, Co, Ni- 0.1 mg/kg , Cu, Sb, Zn, Mn – 4 mg/kg , Hg,

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				Sn:- 0.01 mg/kg
77	***Polymer***	*Product Safety Commission (Ausschuss für Produktsicherheit) Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of awarding the GS mark - Pursuant to article 21(1) no. 3 of the German Product Safety Act (ProdSG]*	*SOP-QM-11 BD 02 A3 012 (according to DIN 38407-39 (F 39), AfPS GS 2014:01 PAK 2014-08 STANDARD 201 by OEKO-TEX® M-23 and ML-23)*	LOD (PAHs) = 0.1 mg/kg
78	***Textile***	*Determination of the content of extractable Chlorinated Phenols, its salts and esters by Alkaline extraction /or GC-MS/MS analysis*	*SOP-QM-11 BD 02 A3 005 (According to DIN EN 12673 and STANDARD 201 by OEKO-TEX® M-7)*	LOD = 0.02 mg/kg
79	***textiles, leather and accessories***	*Determination of Organotin compounds with Extraction Facilitated by Carbamate / GC-MS/MS analysis*	*SOP-QM-11 BD 02 A3 011 (according to DIN EN ISO 23161 (2011-10); STANDARD 201 by OEKO-TEX® M-17 + ML-17)*	LOD = 0.05mg/kg
80	***Textiles and accessories***	*Determination of Allergeneous and Carcinogenic dyestuff by HPCL/MS-MS*	*SOP-QM-11 BD 02 A2 003 (according to DIN 54231: 2005 DIN EN ISO 16373-2:2014 textiles ; STANDARD 201 by OEKO-TEX® M-4-A & ML-4-A as M-4-B & ML-4-B)*	LOD = 2 mg/kg
81	***Textiles and accessories***	*Determination of content of chlorinated benzenes and toluenes*	*SOP–QM-11 BD02 A3 001(according to DIN EN 54232:2010 ;Standard 201 by OEKO-TEX® M-2 + ML-2)*	LOD = 0.1 mg/kg

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82	***Textiles and accessories***	*Textiles - Method for the detection and determination of alkylphenolethoxylates (APEO) - Part 1: Method using HPLC-MS/MS (Modification: additional determination of alkylphenols)*	*SOP-QM-11 BD 02 A3 008 (according to DIN EN 18254-1:2016 Textiles , STANDARD 201 by OEKO-TEX® M-25 & ML-25.*	LOD = 4 mg/kg
83	***Textiles and accessories***	*Poly- and perfluorinated compounds (PFCs)*	*SOP-QM-11 BD 02 A3 007 (According to DIN 38414-14; STANDARD 201 by OEKO-TEX® M-22 + ML-22)*	0.002 – 0.4 mg/kg
84	***Textiles and accessories***	*Short chain and medium chain chlorinated paraffins (SCCP/MCCP)*	*SOP-QM-11 BD 02 A3 017 (According to DIN EN ISO 18219; STANDARD 201 by OEKO-TEX® M-24 + ML-24 and additional testing of medium chain chlorinated paraffins (MCCP)*	5 mg/kg - 50 mg/kg (each of SCCP and MCCP)
85	***Textiles and accessories***	*Dimethyl fumarate (DMFu)*	*SOP-QM-11 BD 02 A3 015 (According to CEN ISO/TS 16186:2012-12 ; STANDARD 201 by OEKO TEX ® M 27 + ML 27)*	0.02 – 0.2 mg/kg
86	***Leather and accessories***	*Chemical determination of formaldehyde content*	*SOP-QM-11 BD 02 A5 016 (According to DIN EN ISO 17226-1)*	5 – 250 mg/kg
87	***Textiles and accessories***	*Migration of certain elements*	*SOP-QM-11 BD 02 A6 001 (According to DIN EN 71-3)*	0.125 – 50 mg/kg other than Hg (0.0125 – 0.5 mg/kg (only Hg)
88	***Textiles and accessories***	*Determination of phenol and bisphenol A*	*SOP-QM-11 BD 02 A6 009 (According toDIN EN 71-10*	Phenol:0.5–50mg/l ;

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			& 11)	Bisphenol A:0.01– 0.50 mg/l
89	***Textiles and accessories***	*Determination of flame retardants*	*SOP-QM-11 BD 02 A3 020 (according to DIN EN ISO 17881-2:2016 ; STANDARD 201 by OEKO-TEX® M-30-B + ML-30-B)*	0.01 mg/l – 0.25 mg/l
90	***Leather and accessories***	*Determination of Chromium VI*	*SOP-QM-11 BD 02 A5 014 (according to ISO 17075-1 ; STANDARD 201 by OEKO-TEX® ML- 12)*	0.25 – 10.0 mg/kg
91	***Textiles and accessories***	*Determination of volatile Organic Compounds (VOC)*	*SOP-QM-11 BD 02 A3 024 (according to VDA 278 ; STANDARD 201 by OEKO-TEX® M-31 & ML-31)*	VOC's, Benzene- 0.1-1 mg/kg; Xylol, Cresol, 2-Methoxyethanol, Ethylen-glycol-dimethylether – 2-20 mg/kg ; Other substances ;- 1-10 mg/kg
92	***Textiles and accessories***	*Determination of N-nitrosamines and N-nitrosable substances*	*SOP-QM-11 BD 02 A3 029(according to DIN EN 71-12; STANDARD 201 by OEKO-TEX® M-34 & ML-34)*	0.05 – 1.00 mg/kg for nitrosamines and 0.07 – 1.30 mg/kg for N-nitrosable substances
93	***Textiles and accessories***	*Determination of pesticides*	*SOP-QM-11 BD 02 A3 004 (according to STANDARD 201 by OEKO-TEX® M-6 A*	0.25 mg/l – 2 mg/l

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			& ML-6-A)	
94	***Textiles and accessories***	*Determination of dimethylformamide (DMFa)*	*SOP-QM-11 BD 02 A3 016 (according DIN CEN ISO/TS 16189:2013-12 ; OEKO TEX ® Standard 201 M 26)*	1.0 mg/l - 20.0 mg/l
95	***Textiles and accessories***	*Determination of UV-stabilizers*	*SOP-QM-11 BD 02 A3 019 (according to STANDARD 201 by OEKO-TEX® M-28 + ML-28)*	100 – 1000 mg/kg
96	***Textiles and accessories***	*Identification of Polyvinyl Chloride (PVC) and Polyurethane (PU)*	*Polyvinyl chloride (PVC) (Beilstein) and SOP-QM-11 BD 02 A5 020 (FTIR)*	Qualitative
97	***Wastewater***	*Temperature [°C]*	*SOP-QM-11 BD 02 A8 021 (According to DIN 38 404-4)*	5-80˚C
98	***Wastewater***	*Determination of Total Organic Carbon (TOC)*	*SOP-QM-11 BD 02 A8 010 (In-House)*	30 mg/l - 300 mg/l
99	***Wastewater***	*TSS*	*SOP-QM-11 BD 02 A8 005 (According to ISO 11923)*	5-600mg/L
100	***Wastewater***	*COD*	*SOP-QM-11 BD 02 A8 008 (According to ISO 6060)*	40 mg/l – 1000 mg/l
101	***Wastewater***	*Total-N*	*SOP-QM-11 BD 02 A8 016 (In-House)*	5 mg/l – 20 mg/l
102	***Wastewater***	*pH& Conductivity*	*SOP-QM-11 BD 02 A8 020 (According to DIN EN ISO 10523)*	pH : 0-14 / Conductivity = '0.001µS/cm to 1000mS/cm
103	***Wastewater***	*Colour [m-1] (436nm; 525; 620nm)*	*SOP-QM-11 BD 02 A8 022 (According to DIN EN ISO 7887)*	1-10
104	***Wastewater***	*BOD5*	*SOP-QM-11 BD 02 A8 025 (According to EN 1899-1)*	50 mg/l – 500 mg/l
105	***Wastewater***	*Ammonium-N*	*SOP-QM-11 BD 02 A8 012 (According to ISO 7150-1)*	1 mg/l – 10 mg/l

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106	***Wastewater***	*AOX*	*SOP-QM-11 BD 02 A8 009 (According to DIN EN ISO 9562)*	0.05 mg/l – 3.00 mg/l
107	***Wastewater***	*Oil and Grease*	*SOP-QM-11 BD 02 A8 019 (According to EPA Method 1664 Revision B)*	5 to 1000 mg/L
108	***Wastewater***	*Phenol*	*SOP-QM-11 BD 02 A8 003 (According to DIN EN 12673)*	0.2 – 40 µg/L
109	***Wastewater***	*Sulfide*	*SOP-QM-11 BD 02 A8 011 (According to ISO 10530)*	0.1 mg/l – 2.0 mg/l
110	***Wastewater***	*Cyanide*	*SOP-QM-11 BD 02 A8 014 (According to ISO 6703-2)*	0.01 mg/l – 0.60 mg/l CN
111	***Wastewater***	Metals	*SOP-QM-11 BD 02 A8 001 (According to DIN EN ISO 17294-2)*	5.0 µg/l - 200 µg/l
112	***Wastewater/Sludge***	*Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)*	*SOP-QM-11 BD 02 A8 007 (According to DIN EN ISO 18254-1/ DIN EN ISO 18857-2)*	0.5 – 1000.0 µg/l
113	***Wastewater/Sludge***	*Chlorobenzenes and Chlorotoluenes*	*SOP-QM-11 BD 02 A8 002 (According to DIN EN ISO 6468)*	0.01 – 1.0 µg/l
114	***Wastewater/Sludge***	*Chlorophenols*	*SOP-QM-11 BD 02 A8 003 (According to DIN EN 12673)*	0.2 – 40 µg/L
115	***Wastewater/Sludge***	*Dyes – Azo (Forming Restricted Amines)*	*SOP-QM-11 BD 02 A8 017 (According to DIN EN ISO 14362-1 and DIN EN ISO 14362-3)*	0.05 - 2.0 µg/l (HPLC-MS/MS)
116	***Wastewater/Sludge***	*Dyes – Carcinogenic or Equivalent Concern Dyes – Disperse (Sensitizing)*	*SOP-QM-11 BD 02 A8 007 (In-House)*	0.1 – 5.0 µg/l
117	***Wastewater/Sludge***	*Flame Retardants*	*SOP-QM-11 BD 02 A8 007*	0.01 – 5.0 µg/l

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			(According to DIN EN ISO 17881-1,GC-MS/MS ; DIN EN ISO 17881-2,LC-MS/MS)	
118	***Wastewater/Sludge***	*Glycols*	*SOP-QM-11 BD 02 A8 018 (According to ISO 20595)*	1 - 20.0 mg/l corresponds to 6 µg/l – 120 µg/l
119	***Wastewater/Sludge***	*Organotin Compounds*	*SOP-QM-11 BD 02 A8 004 (According to DIN EN ISO 17353 and EN ISO 23161)*	0.01 – 1000 µg/l
120	***Wastewater/Sludge***	*Perfluorinated andPolyfluorinatedChemicals (PFCs)*	*SOP-QM-11 BD 02 A8 007 (According to DIN 38414-14)*	0.001 – 0.1 µg/l
121	***Wastewater/Sludge***	*Phthalates*	*SOP-QM-11 BD 02 A8 002 (According to ISO 18856)*	1 – 200 µg/l
122	***Wastewater/Sludge***	*Short chain and medium chain chlorinated paraffins (SCCP/MCCP)*	*SOP–QM-11 BD 02 A8 023 (According to DIN EN ISO 12010)*	5 – 50 µg/l
123	***Wastewater/Sludge***	*Polycyclic Aromatic Hydrocarbons (PAHs)*	*SOP-QM-11 BD 02 A8 002 (According to DIN 38407-39 (F 39))*	0.01 – 1.0 µg/l
124	***Wastewater/Sludge***	*Volatile Organic Compounds (VOC)*	*SOP-QM-11 BD 02 A8 006 (According to ISO 20595)*	1 µg/l – 120 µg/l

END

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