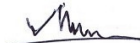


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
<b>Field: Mechanical Testing</b>				
01	Textiles, Garment & Accessories	<i>Colour fastness to artificial light: Xenon arc fading lamp test</i>	<i>DIN EN ISO 105 B02-2014, ISO 105 B02-2014, BS EN ISO 105 B02-2014, AATCC TM 16.3 (Option3)-2020</i>	BWS 1 to 8 Grade 1 to 5
02	Textiles, Garment & Accessories	<i>Colour fastness to light of textiles wetted with artificial perspiration</i>	<i>DIN EN ISO 105 B07-2009, ISO 105 B07-2009, EN ISO 105 B07-2009, BS EN ISO 105 B07-2009, AATCC TM 125: 2020.</i>	BWS 1 to 8 Grade 1 to 5
03	Textiles, Garment & Accessories	<i>Colour fastness to water</i>	<i>DIN EN ISO 105 E01-2013, ISO 105 E01-2013, EN ISO 105 E01-2013, BS EN ISO 105 E01-2013, AATCC TM 107-2022.</i>	1 to 5 grade
04	Textiles, Garment & Accessories	<i>Colour fastness to sea water</i>	<i>DIN EN ISO 105 E02-2013, ISO 105 E02-2013, EN ISO 105 E02-2013, BS EN ISO 105 E02-2013, AATCC TM 106-2013.</i>	1 to 5 grade
05	Textiles, Garment & Accessories	<i>Colour fastness to chlorinated water (swimming-pool water)</i>	<i>DIN EN ISO 105 E03-2010, ISO 105 E03-2010, EN ISO 105 E03-2010, BS EN ISO 105 E03-2010, AATCC TM 162:2011</i>	1 to 5 grade
06	Textiles, Garment & Accessories	<i>Colour fastness to perspiration</i>	<i>DIN EN ISO 105 E04-2013, ISO 105 E04-2013, BS EN ISO 105 E04-2013, AATCC TM 15-2021.</i>	1 to 5 grade
07	Textiles, Garment & Accessories	<i>Colour fastness to spotting: Acid</i>	<i>DIN EN ISO 105 E05:2010, ISO 105 E05:2010, EN ISO 105 E05:2010, BS EN ISO 105 E05:2010. AATCC TM 6-2021.</i>	1 to 5 grade

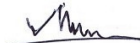
  
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08	Textiles, Garment & Accessories	Colour fastness to spotting: Alkali	DIN EN ISO 105 E06-2006, ISO 105 E06-2006, EN ISO 105 E06-2006, BS EN ISO 105 E06-2006, AATCC TM 6-2021.	1 to 5 grade
09	Textiles, Garment & Accessories	Colour fastness to spotting: Water	DIN EN ISO 105 E07-2010, ISO 105 E07-2010, BS EN ISO 105 E07-2010, AATCC TM 104-2014.	1 to 5 grade
10	Textiles, Garment & Accessories	Colour fastness to washing	DIN EN ISO 105 C06-2010, ISO 105 C06-2010, BS EN ISO 105 C06-2010, DIN EN ISO 105 C08-2010, ISO 105 C08-2010, BS EN ISO 105 C08-2010, DIN EN ISO 105 C09, ISO 105 C09:2001/Amd.1: 2003(E), EN ISO 105 C09, BS EN ISO 105 C09-2001, DIN EN ISO 105 C10:2007, ISO 105 C10:2007, EN ISO 105 C10:2007, BS EN ISO 105 C10:2007, AATCC TM 61-2020.	1 to 5 grade
11	Textiles, Garment & Accessories	Colour fastness to dry cleaning of using perchloroethylene solvent	DIN EN ISO 105 D01-2010, ISO 105 D01-2010, EN ISO 105 D01-2010, BS EN ISO 105 D01-2010, AATCC TM 132-2013.	1 to 5 grade
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	ISO 105-N01-1993, BS EN 20105-N01-1993, DIN EN ISO 105-N02-2018, ISO 105-N02-1995,	1 to 5 grade

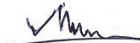
  
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			<i>EN ISO 105-N02-1995, BS EN ISO 105-N02-1995. AATCC TS-001</i>	
14	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to organic solvents</i>	<i>DIN EN ISO 105 X05-1997, ISO 105 X05-1994, EN ISO 105 X05-1997, BS EN ISO 105 X05-1997.</i>	1 to 5 grade
15	<i>Textiles, Garment &amp; Accessories</i>	<i>Migration of textile colors into polyvinyl chloride coatings</i>	<i>DIN EN ISO 105-X10:1995 ISO 105-X10:1993 EN ISO 105-X10:1995 BS EN ISO 105-X10:1996</i>	1 to 5 grade
16	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to rubbing / Crocking</i>	<i>DIN EN ISO 105 X12-2016, ISO 105 X12-2016, EN ISO 105 X12-2016, BS EN ISO 105 X12-2016, AATCC TM 8-2022.</i>	1 to 5 grade
17	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to the potential to phenolic yellowing</i>	<i>DIN EN ISO 105 X18-2007, ISO 105 X18-2007, EN ISO 105 X18-2007, BS EN ISO 105 X18-2007.</i>	1 to 5 grade
18	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to dye Transfer in storage/ Sublimation in storage</i>	<i>DIN 54056- 2017 AATCC TM 163-2020</i>	1 to 5 grade
19	<i>Textiles, Garment &amp; Accessories</i>	<i>Determination of colour fastness of dyeing and prints to bleaching: hypochlorite (mild)</i>	<i>DIN 54034:2018</i>	1 to 5 grade
20	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour Difference Assessment</i>	<i>Visual Method ( Per sample) Computer Spectrophotometric Analysis</i>	1 to 5 grade
21	<i>Textiles, Garment &amp; Accessories</i>	<i>Colour fastness to Ironing</i>	<i>DIN EN ISO 105 X11:1996 ISO 105 X11:1994 EN ISO 105 X11:1996 BS EN ISO 105 X11:1996 AATCC TM 133:2020</i>	1 to 5 grade
22	<i>Textiles, Garment</i>	<i>Colour fastness to Dry heat</i>	<i>DIN EN ISO 105 P01:1995 ISO 105 P01:1993</i>	1 to 5 grade

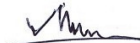
  
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	<b>&amp; Accessories</b>		<i>EN ISO 105 P01:1995</i> <i>BS EN ISO 105 P01:1995</i> <i>AATCC TM 117:2019</i>	
23	<b>Textiles, Garment &amp; Accessories</b>	<i>Test Method for Oil Repellency: Hydrocarbon Resistance</i>	<i>AATCC TM 118-2020e</i> <i>DIN EN ISO 14419:2010</i>	0 to 8 grade
24	<b>Textiles, Garment &amp; Accessories</b>	<i>Presence of odour</i>	<i>GB 18401:2010 clause 6.7,</i> <i>SNR195651-2015</i>	Qualitative
25	<b>Textiles, Garment &amp; Accessories</b>	<i>Absorbency of textile</i>	<i>AATCC TM 79-2018</i> <i>DIN EN ISO 14697:2005 Annex B</i>	0 to 60 sec
26	<b>Textiles, &amp; Accessories</b>	<i>Test methods for accessories: Metallic accessories —Corrosion resistance.</i>	<i>DIN EN ISO 22775:2005</i> <i>ISO 22775:2004</i> <i>EN ISO 22775:2004</i> <i>BS EN ISO 22775:2004</i>	1 to 5 grade
27	<b>Textiles, Garment &amp; Accessories</b>	<i>Determination of Moisture drying rate</i>	<i>ISO 17617:2014</i>	1 Mins to 60 min
28	<b>Textiles, Garment &amp; Accessories</b>	<i>Determination of water absorption velocity of textile fabrics (capillary rise method)</i>	<i>DIN 53924:2020</i> <i>AATCC TM 197-2011e2(2018)e</i>	1mm -250 mm / 180 Sec
29	<b>Textiles, Garment &amp; Accessories</b>	<i>Threads per unit length/ Fabric Count (Stitch density) - Fabric-Construction</i>	<i>ASTM D 3775:2017</i> <i>DIN EN 1049-2:1994</i> <i>EN 1049-2:1993</i> <i>BS EN 1049-2:1994</i> <i>ISO 7211/2:1984</i> <i>ASTM D 3887:2008</i> <i>BS 5441:1988+A1:2019</i> <i>ISO 7211-1:1984</i> <i>ISO 3572:1976</i> <i>DIN EN 14971: 2006</i> <i>DIN EN ISO 14697:2005 Annex C</i>	2 to 100 per cm
30	<b>Textiles, Garment &amp; Accessories</b>	<i>Yarn number based on short length specimens</i>	<i>ASTM D 1059:17</i> <i>ISO 7211/5:2020</i>	1s-120s Ne

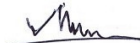
  
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			<i>DIN 53830-3:1981</i>	
31	<b>Textiles, Garment &amp; Accessories</b>	<i>Mass per unit area &amp; unit length of fabric</i>	<i>BS 2471:2005 ASTM D 3776/D 3776 M:2020a Option-C ISO 3801- Method 5:1977 DIN EN 12127:1997 DIN EN ISO 14697:2005 Annex A</i>	<i>5 GSM-500 GSM Full range: GUL</i>
32	<b>Textiles, Garment &amp; Accessories</b>	<i>Fabric width</i>	<i>ISO 22198:2006 ASTM D 3774:2018 DIN EN 1773:1997</i>	<i>1 cm -300 cm</i>
33	<b>Textiles, Garment &amp; Accessories</b>	<i>Pilling Resistance -Pilling Box Method -Martindale Method -Random Tumbler Method - Snagging Method</i>	<i>DIN EN ISO 12945-1:2021 ISO 12945-1:2020, EN ISO 12945-1:2020, BS EN ISO 12945-1:2020, DIN EN ISO 12945-2:2021, ISO 12945-2:2020, EN ISO 12945-2:2020, BS EN ISO 12945-2:2020, DIN EN ISO 12945-3:2021, ISO 12945-3:2020, EN ISO 12945-3:2020, JIS 1058 Option 3 BS 8479:2008 BS EN ISO 12945-3:2020, ASTM D3512/D 3512M-22.</i>	<i>1 to 5 Grade</i>
34	<b>Textiles, Garment &amp; Accessories</b>	<i>Abrasion resistance (Martindale)</i>	<i>DIN EN ISO 12947-1:2007, ISO 12947-1:1998, EN ISO 12947-1:1998, BS EN ISO 12947-1:1998, DIN EN ISO 12947-2:2017, ISO 12947-2:2016,</i>	<i>-Up to 99999 rubs for breakdown -Up to 30% for weight loss - 1 to 5 Grade</i>

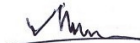
  
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			EN ISO 12947-2:2016, BS EN ISO 12947-2:2016, ASTM D 4966:2022, DIN EN ISO 12947-3:200,7 ISO 12947-3:1998/Cor. 1:2002, EN ISO 12947-3:1998, BS EN ISO 12947-3:1998, DIN EN ISO 12947-4:2007, ISO 12947-4:1998/Cor. 1:2002, EN ISO 12947-4:1998, BS EN ISO 12947-4:1998.	
35	<b>Textiles, Garment &amp; Accessories</b>	Breaking strength and elongation (Strip Test)	DIN EN ISO 13934-1:2013, ISO 13934-1:2013, EN ISO 13934-1:2013, BS EN ISO 13934-1:2013, ASTM D 5035-2019.	10 N to 5000 N 0-200%
36	<b>Textiles, Garment &amp; Accessories</b>	Breaking strength and elongation (Grab Test)	DIN EN ISO 13934-2:2014, ISO 13934-2:2014, EN ISO 13934-2:2014, BS EN ISO 13934-2:2014, ASTM D 5034-2021.	10 N to 5000 N
37	<b>Textiles, Garment &amp; Accessories</b>	Determination of Single end Breaking force and elongation at break using constant rate of extension (Yarns from packages)	DIN EN ISO 2062:2010 ASTM D 2256 / D2256M:2021	1 Centi newton - 500000 Centi newton
38	<b>Textiles, Garment &amp; Accessories</b>	Seam Properties -Seam Strength -Seam Slippage	DIN EN ISO 13935-1:2014, ISO 13935-1:2014, EN ISO 13935-1:2014, BS EN ISO 13935-1:2014,	1N to 5000 N 0-80% Up to 10mm

  
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			<i>DIN EN ISO 13935-2:2014,</i> <i>ISO 13935-2:2014,</i> <i>EN ISO 13935-2:2014,</i> <i>BS EN ISO 13935-2:2014,</i> <i>DIN EN ISO 13936-1:2004,</i> <i>ISO 13936-1:2004,</i> <i>EN ISO 13936-1:2004,</i> <i>BS EN ISO 13936-1:2004,</i> <i>DIN EN ISO 13936-2:2004,</i> <i>ISO 13936-2:2004,</i> <i>EN ISO 13936-2:2004,</i> <i>BS EN ISO 13936-2:2004,</i> <i>ASTM D 1683/D1683M-2022.</i>	
39	<b>Textiles, Garment &amp; Accessories</b>	<i>Tearing strength of fabrics</i> - Elmendorf - Single Rip - Double tear	<i>DIN EN ISO 13937-1:2000,</i> <i>ISO 13937-1:2000,</i> <i>BS EN ISO 13937-1:2000,</i> <i>ASTM D 1424-2021,</i> <i>DIN EN ISO 13937-2:2000,</i> <i>ISO 13937-2:2000,</i> <i>EN ISO 13937-2:2000,</i> <i>BS EN ISO 13937-2:2000,</i> <i>ASTM D 2261-2017,</i> <i>BS 4303-1968,</i> <i>ASTMD 5587-2019,</i> <i>DIN EN ISO 13937-3:2000,</i> <i>ISO 13937-3:2000,</i> <i>EN ISO 13937-3:2000,</i> <i>BS EN ISO 13937-3:2000,</i>	Elmendorf= 1N-128N  Others= 1 N to 5000 N


  
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			<i>DIN EN ISO 13937-4:2000,</i> <i>ISO 13937-4:2000,</i> <i>EN ISO 13937-4:2000,</i> <i>BS EN ISO 13937-4:2000.</i>	
40	<b>Textiles, Garment &amp; Accessories</b>	<i>Bursting strength</i> <i>-Pneumatic</i> <i>-Ball Burst</i>	<i>DIN EN ISO 13938-2:2020,</i> <i>ISO 13938-2:2019,</i> <i>EN ISO 13938-2:2019,</i> <i>BS EN ISO 13938-2:2019,</i> <i>ASTM D3786/D 3786M-2018,</i> <i>ASTM D3787-2016.</i>	(1-2000) KPa 1N-5000N
41	<b>Zipper &amp; Toys</b>	<i>Slide fasteners (Zips)-</i> <i>Specification</i>	<i>ASTM D 2061:07 (2021)</i> <i>16 CFR 1500:53</i> <i>DIN EN 16732:2016</i> <i>EN 16732:2015</i> <i>BS EN 16732:2015</i>	(1 N to 5000 N) Up to 99999 cycles
42	<b>Textiles, Garment &amp; Accessories</b>	<i>Resistance to Unsnapping</i> <i>of Snap Fasteners</i>	<i>ASTM D 4846:96 (2021)</i>	1N – 300 N
43	<b>Textiles, Garment &amp; Accessories</b>	<i>Stretch and Recovery/</i> <i>Tension and Elongation of</i> <i>Elastic fabrics</i>	<i>DIN EN /EN 14704-1:2005</i> <i>BS EN 14704-1:2005</i> <i>DIN EN ISO 20932-1:2020</i> <i>EN ISO 20932-1:2020</i> <i>BS EN ISO 20932-1:2020</i> <i>ASTM D 4964:96 (2020)</i> <i>ASTM D 3107:2011</i> <i>ASTM D 2594:2021</i>	1 to 200%
44	<b>Textiles, Garment &amp; Accessories</b>	<i>Resistance to surface</i> <i>wetting (Spray-test)</i>	<i>DIN EN ISO 4920:2012</i> <i>ISO 4920:2012</i> <i>EN ISO 4920:2012</i>	ISO 1 to ISO 5 (0 to 100)

  
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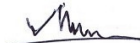


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			BS EN ISO 4920:2012 DIN EN 24920:1992 AATCC TM 22:2017	
45	<i>Textiles, Garment, Accessories and Toys</i>	<i>Torque Test</i>	<i>DIN EN 71 Part 1-Clause-8.3:2018, 16 CFR 1500.51/52/53 ASTM F 963-17</i>	Qualitative
46	<i>Textiles, Garment &amp; Toys</i>	<i>Attachment/Pull strength Snap/Button/Rivets</i>	<i>off of PD CEN/TR 16792:2014, ASTM F 963-17, 16 CFR 1500.51.52.53, DIN EN 71 Part-1:2018 EN 71 Part-1:2014+A1: 2018 BS EN 71 Part-1:2014+A1: 2018 ASTM D7142-05 (R2021) DIN CEN TR 17394-1:2021 DIN CEN TR 17394-2:2020 DIN CEN TR 17394-3:2021 DIN CEN TR 17394-4:2021</i>	1 N -600 N (0.1 Kg – 60 Kg)
47	<i>Textiles, Garment &amp; Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children</i>	<i>Small Parts- Choking Hazard Test (Small part cylinder of 31.7 mm inner diameter)</i>	<i>DIN EN 71 Part 1-Clause-8.2:2018, EN 71 Part-1-Clause-8.2:2014+A1:2018 BS EN 71 Part-1-Clause-8.2:2014+A1:2018 16 CFR 1501, ASTM F 963:17, Sec-4.6</i>	Qualitative
48	<i>Textiles, Garment</i>	<i>Determination of Sharp Points Under a Force of</i>	<i>DIN EN 71 Part 1-Clause-</i>	Qualitative

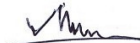
  
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	<b>&amp; Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children</b>	4.45 N (1 Pound)	8.12:2018, EN 71 Part-1-Clause-8.12:2014+A1:2018 BS EN 71 Part-1-Clause-8.12:2014+A1:2018 16 CFR 1500.48, ASTM F 963:17, Sec-4.9	
49	<b>Textiles, Garment &amp; Toys products (Tensile Metal Glass, Plastic, Stone, Leather Accessories) in Garments, Metal Jewellery, other article intended to use for children</b>	Determination of Sharp Edges Under a Force of up to 8.90 N (1.35 Pound)	DIN EN 71 Part 1-Clause-8.11:2018, EN 71 Part-1-Clause-8.11:2014+A1:2018 BS EN 71 Part-1-Clause-8.11:2014+A1:2018 16 CFR 1500.49, ASTM F 963:17, Sec-4.7	Qualitative
50	<b>Textiles, Garment &amp; Toys products</b>	Safety of children's clothing. Cords and Drawstrings on children's clothing Specification.	DIN EN 14682:2015, EN 14682:2014 BS EN 14682:2014 ASTM F 1816:2018	Qualitative
51	<b>Textiles, Garment &amp; Accessories</b>	Dimensional Stability to washing and drying	DIN EN ISO 3759:2011 ISO 3759:2011 EN ISO 3759:2011 BS EN ISO 3759:2011 DIN EN ISO 5077:2008 ISO 5077:2007 EN ISO 5077:2008 BS EN ISO 5077:2008 DIN EN ISO 6330:2022	Elongation & shrinkage 0 to 50%

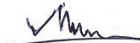
  
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## SCOPE OF ACCREDITATION

(For Testing Laboratory)

<b>CAB Name &amp; Address:</b>	<b>Hohenstein Laboratories Bangladesh Limited, Dhaka, 122/1 Love Road, Tejgaon Industrial Area, Dhaka-1208, Bangladesh.</b>		
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
			ISO 6330:2021 EN ISO 6330:2021 BS EN ISO 6330:2021 AATCC TM 135:2018 AATCC TM 150:2018	
52	<b>Textiles, Garment &amp; Accessories</b>	<i>Dimensional Stability to Dry Cleaning</i>	AATCC TM 158:2016	Elongation & shrinkage 0 to 50%
53	<b>Textiles, Garment &amp; Accessories</b>	<i>Appearance after fabric after repeated home laundering</i>	AATCC TM 124:2018, ISO 7768:2009 BS ISO 7768:2009	Grade: SA-1 to SA-5
54	<b>Textiles, Garment &amp; Accessories</b>	<i>Smoothness of seams in fabrics after repeated home laundering</i>	AATCC TM 88B:2018, ISO 7770:2009 BS ISO 7770:2009	Grade: SS-1 to SS-5
55	<b>Textiles, Garment &amp; Accessories</b>	<i>Retention of creases in fabrics after repeated home laundering</i>	AATCC TM 88C: 2018, ISO 7769:2009 BS ISO 7769:2009	Grade: CR-1 to CR-5
56	<b>Textiles, Garment &amp; Accessories</b>	<i>Appearance of apparel and other textile products after repeated home laundering</i>	DIN EN ISO 15487:2018, ISO 15487:2018 EN ISO 15487:2018 BS EN ISO 15487:2018 AATCC TM 143:2018,	Grade: SA-1 to SA-5 Grade: SS-1 to SS-5 Grade: CR-1 to CR-5
57	<b>Textiles, Garment &amp; Accessories</b>	<i>Appearance (visual assessment) after laundering</i>	<i>In-house method (SOP-QM-11.BD.02.A4.778)</i>	1 to 5 Grade Spirality: Up to $\pm 50\%$
58	<b>Textiles, Garment &amp; Accessories</b>	<i>Spirality / Skewing of fabrics &amp; garments</i>	ISO 16322-1:2005, BS ISO 16322-1:2005 ISO 16322-2: 2021, BS ISO 16322-2: 2021 ISO 16322-3:2021, BS ISO 16322-3: 2021	Up to $\pm 50\%$

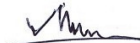
  
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			<i>AATCC TM 179:2019</i>	
59	<i>Textiles, Garment &amp; Accessories</i>	<i>Bow &amp; Skewness</i>	<i>ASTM D3882:2020, BS 2819:1990+A2:2016 ISO 13015:2013</i>	0 to ± 50%
60	<i>Textiles, Garment &amp; Accessories</i>	<i>Durability Wash of garment/Print/Motif/ Applique/Embroidery</i>	<i>In-house method (SOP-QM-11.BD.02.A4.732)</i>	Qualitative
61	<i>Textiles, Garment &amp; Accessories</i>	<i>Crease Recovery</i>	<i>AATCC TM 66-2017 ISO 2313-1:2021</i>	0° - 180°
62	<i>Textiles, Garment &amp; Accessories</i>	<i>Wrinkle Recovery</i>	<i>AATCC TM 128-2017 ISO 9867:2022</i>	1 - 5 Grade
63	<i>Textiles, Garment &amp; Accessories</i>	<i>Fibre analysis-Qualitative &amp; quantitative</i>	<i>DIN EN ISO 1833, ISO 1833 EN ISO 1833 BS EN ISO 1833 ISO 5088, BS 4407:1988, ASTM D 629-2015, AATCC TM 20-2021, AATCC TM 20A-2021, FZ/T 01057-2007, GB/T 2910-2009, EU 1007/2011, AS 2001.7-2005 DIN 54221-1975 DIN 54204-1975 DIN 54209-1975</i>	Up to 100 %
64	<i>Textiles, Garment &amp; Accessories</i>	<i>Flammability of children's sleepwear (up to 14 years) in the USA</i>	<i>16 CFR Part 1615 / 1616</i>	1 to 10 Inch
65	<i>Textiles, Garment &amp; Accessories</i>	<i>Flammability of Apparels</i>	<i>CPSC 16 CFR Part 1610, ASTM D 1230-17</i>	0.1 Sec to 9999 Sec


  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
66	<i>Textiles, Garment &amp; Accessories</i>	<i>Flammability of Textile Clothing &amp; Nightwear</i>	<i>DIN EN 1103:2006,            EN 1103:2005            BS EN 1103:2005            DIN EN 14878:2007            /AC:2009,            EN 14878:2007            BS EN 14878:2007            DIN EN ISO 6940:2004,            ISO 6940:2004            EN ISO 6940:2004            BS EN ISO 6940:2004            DIN EN ISO 6941:2004            ISO 6941:2004            EN ISO 6941:2004            BS EN ISO 6941:2004            BS 5438:1976 Test 1, 2 &amp; 3,            BS 5722:1984 Test 3,            DIN EN 1101:2005            EN 1101:2005            BS EN 1101:2005            DIN EN 1102:2016,            EN 1102:2016            BS EN 1102:2016</i>	1-3600 Sec

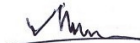
  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
67	<i>Textiles, Garment &amp; Accessories</i>	<i>Fiber Fineness/Thickness</i>	<i>DIN EN ISO 137:2016 ISO 137:2015 EN ISO 137:2015 BS EN ISO 137:2015 DIN 53811:1970 ISO 2589:2016 ISO 5084:1996 ASTM D 1813-13 (2017) ISO 17186:2011</i>	<i>≤ 1 dtex 0.01 mm -10 mm</i>
<b>Field: Chemical Testing</b>				
68	<i>Paint and other similar surface coatings</i>	<i>Determination of content by ICP-MS</i>	<i>Lead SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2017, CPSC-CH-E1003-09.1 ;2011; STANDARD 201 by OEKO-TEX® M-21 and ML-21)</i>	<i>LOD=5 mg/kg</i>
69	<i>Metal children's products (including children's metal jewelry)</i>	<i>Determination of content by ICP-MS</i>	<i>Lead SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2017, CPSC-CH-E1001-08.3, 2012; STANDARD 201 by OEKO-TEX® M-21 and ML-21)</i>	<i>LOD=5 mg/kg</i>
70	<i>Non-metal children's products</i>	<i>Determination of content by ICP-MS</i>	<i>Lead SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-1:02-2016 and DIN EN ISO 17294-2:2017, CPSC-CH-E1002-08.3;2012; STANDARD 201 by OEKO-TEX® M-21 and ML-21)</i>	<i>LOD=5 mg/kg</i>
71	<i>Textiles, leather and accessories</i>	<i>Determination of total heavy metal content with</i>	<i>SOP-QM-11 BD 02 A1 027 (according to DIN EN 16711-</i>	<i>LOD=5 mg/kg</i>

  
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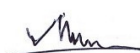


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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		<i>ICP-MS</i>	<i>1:02-2016 and DIN EN ISO 17294-2:2017, DIN EN ISO 17072-2:2019, EPA 3050 B, EPA 3051, EN 16711-1 STANDARD 201 by OEKO-TEX® M-21 and ML-21)</i>	
72	<i>Plasticized component part of children's toy or childcare article, leather accessories, dyes, pigments, inks, printing auxiliaries and chemicals</i>	<i>Standard Operating Procedure for Determination of Phthalates and siloxane.</i>	<i>SOP-QM-11 BD 02 A3 002 (according to CPSC-CH-C1001-09.4 (2018), CEN ISO/TS 16181, DIN EN ISO 15777; ISO 14389, DIN EN ISO 14389:2014; DIN EN ISO 16181-1 2021; UV-Stabilizer according to modified ISO 24040: 2022 as well as tris(2-chlorethyl) phosphate, bisphenol A and selected siloxanes according to STANDARD 201 by OEKO-TEX® M-18 and ML-18)</i> <i>SOP-QM-11 BD 02 A7 053, (according to DIN EN ISO 14389:2014; Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)</i>	LOD=50 mg/kg
73	<i>Metal products</i>	<i>Determination of total lead and cadmium in metallic consumer products with the help of ICP-MS</i>	<i>SOP-QM 11 BD 02 A1 026 (according to 16 CFR 1303, Product Safety Reference Manual, Book 5, part B (method C-02.2, C-02.3, C-02.4))</i>	LOD=5 mg/kg
74	<i>Textile, leather and accessories, dyes, pigments, inks, printing auxiliaries and chemicals</i>	<i>Analysis of commodity goods - Methods for determination of certain aromatic amines in textiles &amp; Leather derived from</i>	<i>SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1: 2017, DIN EN 14362-3:2017, DIN EN ISO 17234-1:2020 and DIN EN ISO 17234-2:2011; STANDARD 201 by OEKO-</i>	LOD=5 mg/kg

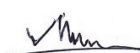
  
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
		<i>azo colorants - Part 1: Detection of the use of certain azo colorants accessible with or without extraction]</i>	<i>TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX®) SOP-QM-11 BD 02 A7 057 (According to DIN EN 14362-1: 2017, DIN EN 14362-3;2017; Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)</i>	
75	<b>Textile, leather and accessories, dyes, pigments, inks, printing auxiliaries and chemicals</b>	<i>Analysis of commodity goods - Methods for determination of certain azo colorants in textiles &amp; Leather - Part 3: Detection of the use of certain azo colorants, which release 4-Aminoazobenzene</i>	<i>SOP-QM-11 BD 02 A2 001 (According to DIN EN 14362-1: 2017, DIN EN 14362-3;2017, DIN EN ISO 17234-1:2020 and DIN EN ISO 17234-2:2011; STANDARD 201 by OEKO-TEX® M-3, ML-3 and ECO PASSPORT by OEKO-TEX®) SOP-QM-11 BD 02 A7 057 (According to DIN EN 14362-1: 2017, DIN EN 14362-3;2017; Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)</i>	LOD=5 mg/kg
76	<b>Textile materials, textile products</b>	<i>Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method)</i>	<i>SOP-QM-11 BD 02 A5 006 (according to JIS L 1041-2011 or Law 112 (Acetyl acetone method), DIN EN ISO 14184-1:2011), SASO 2142:2003, SASO 2143 (released):2003</i>	LOD=10 mg/kg
77	<b>Textile, leather and accessories</b>	<i>Determination of pH value in aqueous extract of textiles and leather.</i>	<i>SOP-QM-11 BD 02 A5 013 (according to DIN EN ISO 3071:2020, DIN EN ISO 4045:2018, STANDARD 201 by OEKO-TEX® M-1 and ML-1), SASO 2144:2003</i>	0 – 14

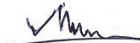
  
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78	<b>Coated and Non-coated metal materials</b>	<i>Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin</i>	<i>SOP-QM 11BD 02 A1 025 (according to DIN EN 1811:2023, DIN EN 12472:2020 and subsequent measurement according to DIN EN ISO 17294-2:2017)</i>	LOD = 0.1 µg/cm <sup>2</sup> /week
79	<b>Metal materials</b>	<i>Screening tests for nickel release from alloys and coatings in items that come into direct and prolonged contact with the skin (Nickel Spot test)</i>	<i>SOP-QM 11 BD 02 A1 025 (According to CR 12471:2002)</i>	Qualitative
80	<b>Textile, leather and accessories</b>	<i>Determination of Extractable Heavy Metals (As, Pb, Cd, Co, Ni, Cr, Cu, Hg, Mn, Zn, Sb, Mn, Ba and Se) in artificial acidic sweat solution by ICP-MS</i>	<i>SOP-QM-11 BD 02 A1 029 (according to modified DIN EN 16711-2:2016; DIN EN ISO 17072-1:2019, Textiles; STANDARD 201 by OEKO-TEX® M-10 &amp; ML-10)</i>	LOD- As, Pb, Cd- 0.05 mg/kg, Cr, Co, Ni- 0.1 mg/kg, Cu, Sb, Zn, Mn – 4 mg/kg, Hg, Sn:- 0.01 mg/kg, Ba- 4 mg/kg
81	<b>Textile, Polymer, toys, leather, accessories, dyes, pigments, inks, printing auxiliaries and chemicals</b>	<i>Determination of selected polycyclic aromatic hydrocarbons (PAHs) by means of gas chromatography</i>	<i>SOP-QM-11 BD 02 A3 012 (according to DIN EN 17132:2019, AfPS GS 2019:01, ISO 18287; AfPS GS 2014-01; DIN EN ISO 4044:2017, EN ISO 16190:2022); SOP-QM-11 BD 02 A7 050 (according to DIN EN 17132: 2019, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)</i>	LOD (PAHs) = 0.1 mg/kg
82	<b>Textile and accessories</b>	<i>Determination of selected chlorophenols and phenol</i>	<i>SOP-QM-11 BD 02 A3 005: (Extraction with microwave, According to DIN 50009:2021; ISO 17070-</i>	LOD = 0.02 mg/kg

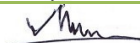
  
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			2015; § 64 LFGB B 82.02-08 , DIN EN ISO 13365 STANDARD 201 by OEKO- TEX® M-7)	
83	<b>Leather and accessories</b>	Determination of tetrachlorophenol-, trichlorophenol-, dichlorophenol-, monochlorophenol-isomers and pentachlorophenol	SOP-QM 11 BD 02 A3 023 (According to DIN EN ISO 17070:2015, § 64 LFGB B 82.02-08 ; Modification: according to STANDARD 201 by OEKO- TEX® ML-7)	LOD = 0.02 mg/kg
84	<b>Textiles, Leather, accessories, dyes, pigments, inks, printing auxiliaries and chemicals</b>	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 22744-1&2:2020; DIN EN ISO 23161: 2011; CEN ISO/TS 16179:2012; DIN EN ISO 17353; CEN ISO/TS 16179-2012; STANDARD 201 by OEKO-TEX® M-17 + ML-17)	LOD = 0.05mg/kg
85	<b>Textiles, leather, accessories, pigments. inks, printing auxiliaries and chemicals</b>	Determination of Disperse dyestuffs, other dyes and quinoline, navy blue component-1 and navy blue component-2 .	SOP-QM-11 BD 02 A2 003 (according to DIN 54231: 2022 , DIN EN ISO 4044:2017; STANDARD 201 by OEKO- TEX® M-4-A & ML-4-A as M-4-B & ML-4-B ; SOP-QM-11 BD 02 A7 058 (according to DIN 54231: 2022, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals) Liquid extraction, analysis by	LOD = 0.05 mg/l

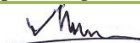
  
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			<i>LC-MSMS</i>	
86	<i>Textiles, leather and accessories</i>	<i>Determination of content of chlorinated benzenes and toluenes</i>	<i>SOP-QM-11 BD 02 A3 001 (according to DIN EN 17137:2019; Solvent extraction DIN EN ISO 6468:1997; EN 17137-2018; DIN 54232;2010, mod;Standard 201 by OEKO-TEX® M-2 + ML-2)</i>	LOD = 0.1 mg/kg
87	<i>Textiles, leather, accessories, dyes, pigments, inks, printing auxiliaries and chemicals</i>	<i>Textiles - Method for the detection and determination of alkylphenols (NP,OP,HP,PeP and alkylphenoethoxylates (APEO) - by HPLC-MS/MS (Modification: additional determination of alkylphenols)</i>	<i>SOP-QM-11 BD 02 A3 008 (according to DIN EN 18254-1:2016 and EN ISO 18218-1:2019;EN ISO 21084-2019;EN ISO 21084-2019; ASTM D7485-09 and ASTM D7742-11 Textiles, STANDARD 201 by OEKO-TEX® M-25 &amp; ML-25. SOP-QM 11 BD 02 A7 055_ECOPASS LIGHT AP&amp; APEO (According to DIN EN ISO 18254:2016, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)</i>	LOD = 4 mg/kg
88	<i>Textiles, leather , accessories , dyes, pigments, inks, printing auxiliaries and chemicals</i>	<i>Poly- and perfluorinated compounds (PFCs)</i>	<i>SOP-QM-11 BD 02 A3 007 (According to DIN 38414-14:2011; DIN EN ISO 23702-1; EN ISO 23702-1:2018; CEN/TS 15968; EN 17681-1:2022 &amp; 17681- 2:2022; EN 14582 ;2018, STANDARD 201 by OEKO-TEX® M-22 + ML-22) SOP-QM-11 BD 02 A7 056 (According to DIN 38414-14:2011, Modifications: Determination in dyes, pigments, inks, printing</i>	0.002 – 0.4 mg/kg

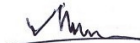
  
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89	<b>Textiles, leather , accessories , dyes, pigments, inks, printing auxiliaries and chemicals</b>	Short chain and medium chain chlorinated paraffins (SCCP/MCCP)	<i>auxiliaries and chemicals)</i> SOP-QM 11 BD 02 A3 017(According to DIN EN ISO 182191&2:2021; ISO 22818-2021, STANDARD 201 by OEKO-TEX® M-24 + ML-24 and additional testing of medium chain chlorinated paraffins (MCCP); SOP-QM-11 BD 02 A7 060 (According to DIN EN ISO 18219:2021, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)	5 mg/kg - 50 mg/kg (each of SCCP and MCCP)
90	<b>Textiles, leather and accessories</b>	Dimethyl fumarate (DMFu)	SOP-QM-11 BD 02 A3 015 (According to DIN CEN ISO/TS 16186:2012; DIN EN 17130:2019, ISO 16186-2021; STANDARD 201 by OEKO TEX ® M 27 + ML 27)	0.02 – 0.2 mg/kg
91	<b>Leather, accessories ,dyes, pigments, inks, printing auxiliaries and chemicals</b>	Chemical determination of formaldehyde content	SOP-QM-11 BD 02 A5 016 (According to DIN EN ISO 17226-1: 2019, EN ISO17226-2:2019,EN ISO 17226-1;2021); SOP-QM-11 BD 02 A7 061(According to DIN EN ISO 17226-1: 2019, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals)	5 – 250 mg/kg
92	<b>Textiles and accessories</b>	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)

  
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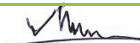


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93	Textiles, leather accessories and wastewater	Determination of phenol, bisphenol A, B, S, F, AF, AEEA [2-(2-aminoethylamino)ethanol] and Thiourea	SOP-QM-11 BD 02 A6 009; (According to DIN EN 71-10 & 11, DIN EN ISO 14389:2013; DIN EN ISO 11936 & DIN EN ISO 13365 ), Liquid extraction analysis by LC-MS/MS	Phenol:0.5–50mg/l; Bisphenol A, Thiourea:0.01–0.50 mg/l ; AEEA – 0.5 – 5 mg/l
94	Textiles, leather and accessories	Determination of flame retardants	SOP-QM-11 BD 02 A3 020 (according to DIN EN ISO 17881-2:2016; DIN EN ISO 17881-1,2016; EN ISO 17881-1&2;2016, STANDARD 201 by OEKO-TEX® M-30-B + ML-30-B)	0.01 mg/l – 0.25 mg/l
95	Leather, Textile and accessories	Determination of Chromium VI	SOP-QM 11 BD 02 A5 014 (according to DIN EN ISO 17075-1&2:2017 without thermal aging or with thermal aging according to ISO 10195:2018) SOP-QM 11 BD 02 A5 007 (according to DIN EN ISO 11083)	0.25 – 10.0 mg/kg
96	Textiles, leather and accessories, dyes, pigments, inks, printing auxiliaries and chemicals	Determination of volatile Organic Compounds (VOC)	SOP-QM-11 BD 02 A3 024&18 (according to VDA 278:2011; DINENISO11890-2; Headspace GC-MS (GC/MS headspace 45 minutes at 120 degrees C)DIN EN ISO 16189;EN 17131; 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
97	Textiles and accessories	Determination of N-nitrosamines, N-nitrosable substances and 2-Mercapto-benzothiazole	SOP-QM-11 BD 02 A3 029 (according to DIN EN 71-12; EN 19577;2019, DIN EN ISO 13365-1;STANDARD 201 by OEKO-TEX® M-34 & ML-	0.05 – 1.00 mg/kg for nitrosamines and 0.07 – 1.30 mg/kg for N-

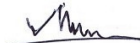
  
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			34)	nitrosable substances
98	Textiles and accessories	Determination of pesticides	SOP-QM-11 BD 02 A3 004 (according to STANDARD 201 by OEKO-TEX® M-6 A & ML-6-A)	0.25 mg/l – 2 mg/l
99	Textiles, leather, accessories and wastewater /Water	Determination of dimethylformamide (DMFa)	SOP-QM-11 BD 02 A3 016 (according to DIN CEN ISO/TS 16189:2013; EPA 8015, EPA 8270E ; EN 17131; EN ISO 19070, ISO 16189)	0.01 mg/l - 20.0 mg/l
100	Textiles accessories and wastewater/Water	Determination of UV-stabilizers/ UV Absorbers	SOP-QM-11 BD 02 A3 019 (according to USEPA 8270 ISO 22032, USEPA 527 and USEPA 8321B.DIN EN 62321-6:2016-05)	0.05 – 0.5 mg/l
101	Textiles, accessories, plastic and coating material	Identification of Polyvinyl Chloride (PVC) and Polyurethane (PU)	Polyvinyl chloride (PVC) (Beilstein) and SOP-QM-11 BD 02 A5 020 (FTIR)	Qualitative
102	Textites,Leather and accessories	Solvent residues	SOP_QM 11 BD 02 A3 016 (according to DIN CEN ISO/TS 16189:2013)	0.1 mg/l – 20.0 mg/l
103	Leather and accessories	Process preservative agents	SOP-QM 11 BD 02 A3 022 (according to DIN EN ISO 13365-1:2011, pr EN ISO 13365:2019)	10 – 2000 mg/kg
104	Water / Wastewater	Temperature [°C]	SOP-QM-11 BD 02 A8 021 (According to DIN 38404-4:1976) USEPA 170.1 APHA-2550	5-80°C
105	Water / Wastewater	Determination of Total Organic Carbon (TOC)	SOP-QM-11 BD 02 A8 010 (USEPA 415.3; APHA 5310C; ISO 20236-2018; BS ISO 20236:2018)	30 mg/l - 300 mg/l


  
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106	Water / Wastewater	TSS	SOP-QM-11 BD 02 A8 005 (According to USEPA -160.2 :1971, APHA/ SM 2540D(23rd Edition)	4-10000 mg/L LOD= 4 mg/L
107	Water / Wastewater	COD	USEPA 410.4 :1993, ISO 6060 :1989, APHA/SM 5220D (23rd Edition), USEPA 410.4 Validated Cuvette Method)	4- 20000 mg/L LOD= 4 mg/L
108	Water / Wastewater	Total Nitrogen	ISO 5663 :1984, USEPA 351.2 :1993, ISO 11905-1 :1998, SM 4500N-C (23rd Edition); BS EN ISO 11905-1:1998; DIN EN ISO 11905-1:1998	0.5 mg/l – 50 mg/l ; LOD: 1.0 mg/L
109	Water/Wastewater and sludge	pH& Conductivity	SOP-QM-11 BD 02 A8 020 (According to DIN EN ISO 10523:2012; USEPA-150.1 :1978 USEPA SW 9045D: 2004; SM 4500H; ISO 3696)	pH : 0-14 / Conductivity = '0.001µS/cm to 1000mS/cm
110	Water / Wastewater	Colour [m-1] (436nm; 525; 620nm)	SOP-QM-11 BD 02 A8 022 (According to DIN EN ISO 7887:2012; ISO 7887 Method B) APHA/SM 2120B, USEPA 110.2	1-10
111	Water / Wastewater	BOD5	ISO 5815-1; APHA/SM 5210B; USEPA 405.1; ISO 5815-1,2	1 mg/l – 500 mg/l
112	Water / Wastewater	Ammonium-Nitrogen	ISO 11732 :2005, ISO 7150-1:1984, USEPA 350.1 :1993, APHA/SM 4500	0.01 - 100 mg/L LOD: 0.01 mg/L
113	Water / Wastewater/ Textile	AOX	SOP-QM-11 BD 02 A8 009 (According to ISO 9562:2004; BS EN ISO 9562:2004, USEPA 1650 ,ISO 17226-1)	0.05 mg/l – 3.00 mg/l ; LOD – 0.05 mg/l
114	Water /	Oil and Grease	ISO 9377-2 :2000,	0.5-1000 mg/L

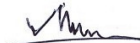
  
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	<i>Wastewater</i>		<i>USEPA 1664 revision B :2010, APHA/SM 5520B</i>	LOD: 0.5 mg/L
115	<i>Water / Wastewater</i>	<i>Total Phenols/ Phenol Index</i>	<i>ISO 6439: 1990, APHA/SM 5530 B/C/D (23rd Edition)</i>	0.001-10 mg/L LOD:0.001mg/L
116	<i>Water / Wastewater</i>	<i>Sulfide</i>	<i>SOP-QM-11 BD 02 A8 011 (According to ISO 10530:1992, APHA/SM 4500-S2-D)</i>	0.01-10.0 mg/L LOD:0.01 mg/L
117	<i>Water / Wastewater</i>	<i>DO value</i>	<i>SOP-QM 11 BD 02 A8 028 (According to USEPA 360.1; APHA/SM 4500-O-G (23rd Edition 2017),</i>	0- 20 mg/L
118	<i>Water / Wastewater</i>	<i>TDS</i>	<i>SOP-QM 11 BD 02 A8 030 (According to USEPA 160.1 ,APHA/SM 2540C)</i>	1-5000 mg/L LOD: 1 mg/L
119	<i>Water / Wastewater</i>	<i>Total Chlorine</i>	<i>SOP-QM 11 BD 02 A8 027 (According to EN ISO 73932:2019; EPA 330.5: 1978, APHA 4500-CI B/G, 23<sup>rd</sup> Edition 2017)</i>	0- 0.7 mg/L
120	<i>Water / Wastewater</i>	<i>Anions (Chloride, Sulfate, Sulfite)</i>	<i>ISO-15923-1:2014-07, USEPA-300: APHA/SM 4500-SO32-C ; ISO 10304-1,3: 1997, USEPA 377.1</i>	2.0 to 25.0 mg/L SO <sub>4</sub> <sup>2-</sup> and 0.1 to 25.0 mg/L; Sulfite; 0.1mg/l–5.0 mg/l
121	<i>Water/Wastewater/ Sludge</i>	<i>Cyanide, Total</i>	<i>ISO 6703-1,2,3 -1984, USEPA 335.2 :1980, APHA/SM 4500-CN-E (23rd Edition) 1998, DIN 38405-13;2011,ASTM D2036-09D-2015, USEPA 9013 :2014, USEPA 9014 :2014</i>	Wastewater: 0.01-5 mg/L LOD: 0.01 mg/L ; Sludge: 0.2-50 mg/kg LOD: 0.2 mg/kg

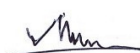
  
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122	Water /Wastewater/Sludge, dyes, pigments, inks, printing auxiliaries and chemicals	Determination of selected Heavy Metals (Sb, Cr, Co, Cu, Ni, Ag, Zn, As, Cd, Pb, Hg, Total Phosphorus, Boron, barium, Selenium, Sn and Cr(VI), in wastewater, sludge, chemicals ( via ICP-MS)	ISO 17294-2:2017; ISO 15587-1:2002, EN 13346:2001; ISO 11885 :2007, ISO 6878:2004; ISO 18412 :2005, USEPA 200.8 :1994, USEPA 6010c:2000, USEPA 6020a :1998, USEPA3060A :1996, EN 14602-2012, DIN EN 14602;2012, USEPA 7196 :1992, USEPA 3050 :1996, USEPA 6010D :2018, US EPA 6020B :2014, US EPA 3051A :2007, USEPA1311:1992 ,EPA 200.7, USEPA200.8, USEPA 218.6, ISO 12846 WITH ICP-MS and UV/VIS analysis ; SOP-QM 11 BD 02 A7 059_ECOPASS LIGHT Total heavy metal content (according to DIN EN 16711-1:2016 and DIN EN ISO 17294-2:2017, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals.)	0.05.0 µg/l - 200 µg/l; LOD: (Sb, Total Cr, Co, Ni, Ag, Zn, As, Cr(VI), Pb, Mn, Cu, phosphorus, Ba, Se, Sn)- 0.001mg/L (Cd)-0.0001mg/L (Hg)- 0.00002mg/L Sludge: 0.005-500 mg/Kg LOD: Total Cr, Co, Ni, Ag, Zn, Cr(VI), Mn, Cu, Ba, Sn)- 0.05 mg/Kg, (Cd, As, Pb, Se, Sb)- 0.005mg/Kg (Hg)- 0.001 mg/Kg
123	Water /Wastewater/Sludge	Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs)	SOP-QM-11 BD 02 A8 007 (According to DIN EN ISO 18857-2:2012, ISO 18254-1;2016)	0.5 – 1000.0 µg/l

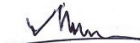
  
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124	<b>Water/Wastewater/ Sludge; dyes, pigments, inks, printing auxiliaries and chemicals</b>	<i>Chlorobenzenes and Chlorotoluenes</i>	<i>SOP-QM-11 BD 02 A8 002 (According to DIN EN 17137:2019, USEPA 8260B &amp; 8270D Dichloromethane extraction followed by GC-MS/MS Analysis ) ; SOP-QM-11 BD 02 A7 052 (According to DIN EN 17137:2019, Modifications: Determination in dyes, pigments, inks, printing auxiliaries and chemicals.)</i>	0.01 – 1.0 µg/l ; MDL – 0.01 µg/l
125	<b>Water/Wastewater/ Sludge; dyes, pigments, inks, printing auxiliaries and chemicals</b>	<i>Chlorophenols; Anti-Microbials &amp; Biocides (o-Phenylphenol (+salts), Triclosan and Permethrin .</i>	<i>SOP-QM-11 BD 02 A8 003 (According to BS EN 12673:1999; ); SOP-QM-11 BD 02 A7 051(According to BS EN 12673:1999, ISO 14154:2005; USEPA 8270E, USEPA 8270 D Solvent extraction, derivatisation with KOH, acetic anhydride followed by GC-MS/MS .)</i>	0.2 – 500 µg/L; MDL -0.2 µg/L
126	<b>Water/Wastewater/ Sludge</b>	<i>Dyes – Azo (Forming Restricted Amines)</i>	<i>SOP-QM-11 BD 02 A8 017 (According to DIN EN ISO 14362-1:2017 and DIN EN ISO 14362-3:2017) Reduction step with sodium dithionite, solvent extraction EPA 8270</i>	0.05 - 2.0 µg/l (HPLC-MS/MS); MDL-0.05 µg/l
127	<b>Water/Wastewater/ Sludge</b>	<i>Dyes – Carcinogenic or Equivalent Concern Dyes–Disperse (Allergenic) and Navy Blue Colourant (Component 1: C<sub>39</sub>H<sub>23</sub>Cl-CrN<sub>7</sub>O<sub>12</sub>S 2Na CAS No- 118685-33-9 and Component 2: LC-MS</i>	<i>SOP-QM-11 BD 02 A8 007 (Liquid extraction analysis by LC-MS/MS; DIN 54231)</i>	0.1 – 5.0 µg/l MDL-0.1 µg/l

  
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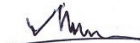


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		<i>C46H-30CrN10020S2 3Na); Determination of prohibited Quinoline</i>		
128	<b>Water/Wastewater/ Sludge</b>	<i>Flame Retardants</i>	<i>SOP-QM-11 BD 02 A8 007 (According to DIN EN 16694: 2015; USEPA 8270E, ISO 22032, USEPA 527 and USEPA 8321B.Solvent extraction followed by GC-MS/MS analysis .</i>	0.01 – 5.0 µg/l MDL-0.01 µg/l
129	<b>Water/Wastewater/ Sludge</b>	<i>Glycols</i>	<i>SOP-QM-11 BD 02 A8 018 (According to USEPA 8270E, Solvent extraction followed by GC-MS/MS analysis)</i>	6 µg/l – 120 µg/l; MDL-6 µg/l
130	<b>Water/ Wastewater/Sludge</b>	<i>Organotin Compounds</i>	<i>SOP-QM-11 BD 02 A8 004 (According to DIN EN ISO 17353: 2005 and DIN EN ISO 23161:2011)</i>	0.01 – 1000 µg/l ; MDL-0.01 µg/l; MDL- 1 µg/kg (Sludge)
131	<b>Water/Wastewater</b>	<i>Perfluorinated and Polyfluorinated Chemicals (PFCs)- Perfluorooctane sulfonate (PFOS) and related Substances ; Perfluorooctanoic acid (PFOA) and related substances</i>	<i>SOP-QM-11 BD 02 A8 007 (According to EPA 537:2020; BS EN 12673-1999; EPA 8270) PFCs: LC-MS/MS; FTOH: GC-MS/MS, solvent extraction &amp; derivatization with acetic anhydride followed by GC-MS analysis .</i>	0.01 – 0.1 µg/l MDL-0.001 µg/l
132	<b>Water/Wastewater/ Sludge</b>	<i>Phthalates</i>	<i>SOP-QM-11 BD 02 A8 002 (DIN EN ISO 18856:2005 ; USEPA 8270E)solvent extraction followed by GC-MS/MS analysis .</i>	1 – 200 µg/l
133	<b>Water/Wastewater/ Sludge</b>	<i>Chlorinated Parafins - Short chain and medium chain chlorinated paraffins (SCCP/MCCP)</i>	<i>SOP-QM-11 BD 02 A8 023 (According to EPA 3510, USEPA 8270, USEPA 527, USEPA 8321B: ISO18219-2:2021 with GC-MS(NCI) .</i>	1 – 50 µg/l MDL- 1 µg/l

  
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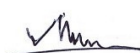
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S.N.	Products/ Materials/ Items of test	Type of tests performed	Specifications/ Standard test methods/Techniques used	Range of testing/Limit of detection
134	<i>Water/Wastewater/ Sludge</i>	<i>Polycyclic Aromatic Hydrocarbons (PAHs)</i>	<i>SOP-QM-11 BD 02 A8 002 (According to DIN 38407-39 (F 39; USEPA 8270E) solvent extraction followed by GC-MS/MS analysis .</i>	0.01 – 1.0 µg/l
135	<i>Water/Wastewater/ Sludge</i>	<i>Volatile Organic Compounds (VOC)(Carbon disulfide, CS<sub>2</sub> ) with Halogenated Solvents</i>	<i>SOP-QM-11 BD 02 A8 006 (According to ISO 11423-1 Headspace or Purge and trap GC-MS EPA 8270 BS EN 12673-1999; USEPA 8260B)</i>	0.1µg/l – 120 µg/l MDL- 0.01 µg/l

\*\*\*END\*\*\*

  
Quality Manager