

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Geo Chem Consumer Products Services (CPS) Ltd.

SB Plaza (6th & 7th floor), Plot No. 37, Sector- 3, Uttara Commercial Area,
Dhaka – 1230, Bangladesh

has been assessed and accredited in accordance with the Standard

ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of

Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2024/0065

Valid from: 11 July 2024

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Valid until: 10 July 2026

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
1.	Garments, textile & textile products, prints	Certain aromatic amines derived from Azo Colourants (Total 24 Aryl amines) O-Toluidine (95-53-4) 2,4 Xylidine (95-68-1) O-Anisidine (90-04-0) P-Chloroaniline (106-47-8) P-Cresidine (120-71-8) 2,4,5 Trimethylaniline (137-17-7) 4 Chlor-O-Toluidine (95-69-2) 2,4 Tolyenediamine (95-80-7) 2,4 Diaminoanisole (615-05-4) 2 Naphthalamine (91-59-8) 2 Aminonitro-4 Toluene (99-55-8) 4 Aminobiphenyl (92-67-1) P-Aminoazobenzene (60-09-03) 4,4 Oxydianiline (101-80-4) 4,4 Diamino-diphenyl methane (101-77-9) Benzidine (92-87-5) O-Amino azo toluene (97-56-3) 4,4 Diamino-3,3 Dimethyl diphenyl amine (838-88-0)	ISO 14362-1: 2017 ISO 14362-3: 2017 GB/T 17592: 2011

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	Hazardous & Restricted Chemicals		
		3,3 Dimethyl Benzidine (119-93-7)	
		4,4 Thiodianiline (139-65-1)	
		3,3 Dichlorobenzidine (91-94-1)	
		4,4 Methylene-Bis-2 Chloroaniline (101-14-4)	
		3,3 Dimethoxy Benzidine (119-90-4)	
		2,6 Xylidine (87-62-7)	
2.	Garments, textile & textile products, coating, plastic & rubber	Determination of Phthalates 1 Di-isononyl phthalate (DINP); (28553-12-0) Di-(2-ethylhexyl) phthalate (DEHP); (117-81-7) Di-n-octyl phthalate (DNOP); (117-84-0) Di-iso-decyl phthalate (DIDP); (26761-40-0) Butyl benzyl phthalate (BBP); (85-68-7) Di-butyl phthalate (DBP); (84-72-2) Di-n-hexyl phthalates (DnHP); (84-75-3)	EN ISO 14389: 2014 CPSC-CH-C1001-09.4: 2018 EN 14372:2004 ISO 16181-1:2021 GB/T 24168:2009

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Di-iso- butyl phthalate (DIBP);(84-69-5)	
		Bis (2-methoxyethyl) phthalate (DMEP); (117-82-8)	
		Di-n-petyl phthalate (DnPP); (131-18-0)	
		Di-iso pentyl phthalate (DIPP); (605-50-5)	
		Di-iso Butyl phthalate (DIBP); (84-69-5)	
		Iso-pentyl pentyl phthalate (iPniPP/PiPP) (776297-69-9)	
		Dimethyl Phthalate (DMP) (131-11-3)	
		Diethyl Phthalate (DEP) (84-66-2)	
		Diisoheptyl Phthalate, di-C6-8 branched alkyl esters, C7-rich (DIHpP) (71888-89-6)	
		Diundecyl Phthalate (DUDP) (3648-20-2)	
		Diphenyl Phthalate (DPhP) (84-62-8)	
		Dicyclohexyl Phthalate (DCHP) (84-61-7)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Diisohexyl Phthalate (DIHP) (7299-89-0)	
3.	Garments, textile & textile products, toy products, plastic, glass & ceramic	Total Lead in non-metal	CPSC-CH-E-1002-08.3: 2012
4.	Garments, textile & textile products, plastic, metal & surface coating	Lead in paint / lead in surface coating (paints & other similar surface coating)	CPSC-CH-E-1003-09.1: 2011
5.	Garments, textile & textile products, toy products & metal items	Total lead content in metal	CPSC-CH-E-1001-08.3: 2012
6.	Garments, textile & textile products, plastic & rubber	Determination of total content of lead and cadmium	EN 1122: 2001 CPSC-CH-E-1002-08.3: 2012
7.	Garments, textile & textile products, plastic, toys products, metal & coated items	Migration of certain element (heavy metal):	EN 71-3: 2019
		Lead	
		Cadmium	
		Chromium III	
		Mercury	
		Selenium	
		Arsenic	
		Antimony	
		Barium	
		Boron	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Aluminium	
		Chromium VI	
		Manganese	
		Cobalt	
		Nickel	
		Copper	
		Zinc	
		Strontium	
		Tin	
8.	Garments, textile & textile products, print & plastic	Determination of selected Organotin compounds: Dibutyltin (DBT) Monobutyltin (MBT) Tributyletin (TBT) Tetra-butyle (TeBT) Monooctyltin (MOT) Diphenyltin (DPHT) Dioctyltin (DOT) Triphenyltin (TPhT) Trimethyltin (TMT) Dimethyltin (DMT) Monophenyltin (MPhT) Tri-Cyclohexyltin (TCyT) Monomethyltin (MMT)	ISO 17353: 2004 ISO/TS 16179: 2012 EN 71-3: 2019

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	Hazardous & Restricted Chemicals		
		Di-heptyltin (DHT)	
		Tri-n-octyltin (TOT)	
		Tetraethyltin (TeET)	
		Tri-n-propyltin (TPrT)	
9.	Garments, textile & textile products	Formaldehyde	AATCC 112:2014 ISO 14184-1:2011 ISO 14184-2:2011 GB/T 2912.1:2009 JIS L 1041:2011 Japan Law 112:2016
10.	Garments, textile & textile products	Formaldehyde spot test	AATCC 94:2012
11.	Metal items	Nickel spot test	PD CR 12471:2002
12.	Metal items (coated & non-coated)	Nickel release test	EN 1811: 2011 + A1: 2015 EN 12472: 2005 + A1: 2009
13.	Garments, textile & textile products	Determination of chlorinated organic carriers	DIN 54232: 2010 BS EN ISO 17137:2018
		2-Chlorotoluene (95-49-8)	
		3-Chlorotoluene (108-41-8)	
		4-Chlorotoluene (106-43-4)	
		1,3-Dichlorobenzene (541-73-1)	
		α-chlorotoluene (100-44-7)	
		1,4-Dichlorobenzene (106-46-7)	
		1,2-Dichlorobenzene (95-50-1)	
		2,4-Dichlorotoluene (95-73-8)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		2,5-Dichlorotoluene (19398-61-9)	
		2,6-Dichlorotoluene (118-69-4)	
		1,3,5-Trichlorobenzene (108-70-3)	
		2,3-Dichlorotoluene (32768-54-0)	
		3,4-Dichlorotoluene (95-75-0)	
		1,2,4-Trichlorobenzene (120-82-1)	
		1,2,3-Trichlorobenzene (87-61-6)	
		α, α, α-Trichlorotoluene (98-07-7)	
		2,4,5-Trichlorotoluene (6639-30-1)	
		1,2,3,5-Tetrachlorobenzene (634-90-2)	
		1,2,4,5-Tetrachlorobenzene (95-94-3)	
		1,2,3,4-Tetrachlorobenzene (634-66-2)	
		α,α,α,4-tetrachlorotoluene (5216-25-1)	
			DIN 54232: 2010 BS EN ISO 17137:2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		2,3,4,6-Tetrachlorotoluene (875-40-1)	
		2,3,5,6-Tetrachlorotoluene (1006-31-1)	
		2,3,4,5-Tetrachlorotoluene (106-32-2)	
		Pentachlorobenzene (608-93-5)	
		Pentachlorotoluene (877-11-2)	
		Hexachlorobenzene (118-74-1)	
		2,3,6-Trichlorotoluene (2077-46-5)	
		Chlorobenzene (108-90-7)	
14.	Plastic, print & coating in garments & textile products	Polyvinyl chloride (PVC)	GC-SOP-ANA-030
15.	Garments, textile & textile products, leather	Extractable heavy metal	
		Antimony	
		Chromium	
		Cobalt	
		Copper	
		Nickel	
		Arsenic	
		Cadmium	
		Lead	
		Mercury	
			ISO 105-E04: 2013 EN ISO 17072-1: 2011

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Chromium (VI)	
16.	Garments, textile & textile products, leather, plastic & paper items	Determination of APEO / AP content	ISO 18218-1: 2015 ISO 18254-1:2016 GB/T 23972: 2009
		NP	
		OP	
		NPEO	
		OPEO	
17.	Garments, textile & textile products	pH Value	ISO 3071: 2020 AATCC 81: 2016 SASO ISO 3071: 2005 GB/T 7573:2009 AS 2001.3.1:1998 (R2016)
18.	Leather	pH Value	ISO 4045: 2008 SASO ISO 4045: 2010
19.	Leather & leather products	Certain aromatic amines derived from Azo Colorants (Total 24 Aryl amines)	ISO 17234-1: 2015 ISO 17234-2: 2011
		O-Toluidine (95-53-4)	
		2,4 Xylidine (95-68-1)	
		O-Anisidine (90-04-0)	
		P-Chloroaniline (106-47-8)	
		P-Cresidine (120-71-8)	
		2,4,5 Trimethylaniline (137-17-7)	
		4 Chlor-O-Toluidine (95-69-2)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		2,4 Tolyenediamine (95-80-7)	ISO 17234-1: 2015
		2,4 Diaminoanisole (615-05-4)	ISO 17234-2: 2011
		2 Naphthalamine (91-59-8)	
		2 Aminonitro-4 Toluene (99-55-8)	
		4 Aminobiphenyl (92-67-1)	
		P-Aminoazobenzene (60-09-03)	
		4,4 Oxydianiline (101-80-4)	
		4,4 Diamino-diphenyl methane (101-77-9)	
		Benzidine (92-87-5)	
		O-Amino azo toluene (97-56-3)	
		4,4 Diamino-3,3 Dimethyl diphenyl amine (838-88-0)	
		3,3 Dimethyl Benzidine (119-93-7)	
		4,4 Thiodianiline (139-65-1)	
		3,3 Dichlorobenzidine (91-94-1)	
		4,4 Methylene-Bis-2	
		3,3 Dimethoxy benzidine (119-90-4)	
		2,6 Xylidine (87-62-7)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
20.	Garments, textile & textile products, leather & leather products	Chromium- VI content	ISO 17075-1:2017 ISO 17075-2:2017 64 LFBG BVL B82.02.11
21.	Leather & leather products	Determination of formaldehyde	ISO 17226-1:2018 ISO 17226-2:2018
22.	Garments, textile & textile products, coated fabric, plastics & metal	Textiles- Determination of metal content - Determination of metals using microwave digestion	BS EN 16711-1:2015
		Arsenic (As)	
		Cadmium (Cd)	
		Cobalt (Co)	
		Chromium (Cr)	
		Copper (Cu)	
		Mercury (Hg)	
		Nickel (Ni)	
		Lead (Pb)	
		Antimony (Sb)	
23.	Garments, Textile & Textile products, coated fabric, plastics & metal	Textiles- Determination of metal content, determination of metals extracted by acidic artificial perspiration solution	BS EN 16711-2:2015
		Arsenic (As)	
		Cadmium (Cd)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Cobalt (Co)	
		Chromium (Cr)	
		Copper (Cu)	
		Mercury (Hg)	
		Nickel (Ni)	
		Lead (Pb)	
		Antimony (Sb)	
24.	Garments, textile & textile products	Determination of allergenic and carcinogenic dyestuff Solvent yellow 1 (60-09-3) Solvent yellow 3 (97-56-3) Solvent yellow 2 (60-11-7) Disperse orange 11 (82-28-0) Disperse orange 3 (730-40-5) Sudan 1 (842-07-9) Disperse yellow 39 (12236-29-2) Disperse blue (12475-45-8) Disperse red 11 (2872-48-2) Disperse yellow 3 (2832-40-8) Direct blue 15 (2429-74-5) Basic red 9 (569-61-9) Disperse yellow 54 (7576-65-0) Disperse blue 3 (2475-46-9)	DIN 54231: 2005 BS EN ISO 16373-2: 2014 BS EN ISO 16373-3: 2014

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	Hazardous & Restricted Chemicals		
		Disperse polyester dark blue (35b) (56524-76-6)	
		Disperse blue 26 (3860-63-7)	
		Disperse blue 35(1) (12222-75-2)	
		Basic violet 14 (632-99-5)	
		Disperse red 1 (2872-52-8)	
		Disperse orange 1 (2581-69-3)	
		Basic red 46 (12221-69-1)	
		Malachite green chloride (569-64-2)	
		Malachite green oxalate (2437-29-8)	
		Disperse blue 106 (12223-01-7)	
		Disperse red 17 (3179-89-3)	
		Basic violet 1 (603-47-4)	
		Disperse blue 7 (3179-90-6)	
		Disperse blue 102 (12222-97-8)	
		Disperse yellow 49 (54824-37-2)	
		Disperse blue 124 (61951-51-7)	
		Disperse orange 37 (13301-61-6)	
		Disperse orange brown 1 (23355-64-8)	
		Basic blue 26 (2580-56-5)	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Disperse orange 149 (85136-74-9)	
		Acid violet 49 (1694-09-3)	
		Acid red 26 (3761-53-3)	
		Disperse yellow 1 (119-15-3)	
		Navy blue (118685-33-9)	
		Basic violet 3 (548-62-9)	
		Direct brown 95 (16071-86-6)	
		Disperse yellow (6250-23-3)	
25.	Garments, textile & textile products	Determination of extractable chlorinated phenols & other phenol Pentachlorophenol (PCP) Tetrachlorophenol (TeCP) Trichlorophenol (TCP) Orthophenylphenol ((OPP) 2-Chlorophenol (95-57-8) 3-Chlorophenol (108-43-0) 4-Chlorophenol (106-48-9) 2,6-Dichlorophenol (87-65-0) 4-Chloro-3-methyl phenol (59-50-7) 2,5-Dichlorophenol (583-78-8) 3,5-Dichlorophenol (591-35-5)	ISO 17070:2015 § 64 LFGB BVL B 82.02.8:2001 DIN EN ISO 17070:2015 UNI 11057: 2003

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	Hazardous & Restricted Chemicals		
		2,3-Dichlorophenol (576-24-9)	
		3,4-Dichlorophenol (95-77-2)	
		2,4,6-Trichlorophenol (88-06-02)	
		2,3,6-Trichlorophenol (933-75-5)	
		2,3,5-Trichlorophenol (933-78-8)	
		2,4,5-Trichlorophenol (95-95-4)	
		2,3,4-Trichlorophenol (15950-66-0)	
		3,4,5-Trichlorophenol (609-19-8)	
		2,3,4,6-Tetrachlorophenol (58-90-2)	
		2,3,4,5-Tetrachlorophenol (4901-51-3)	
		2,3,5,6-Tetrachlorophenol (935-95-5)	
		Pentachlorophenol (87-86-5)	
		Ortho-Phenyl phenol (OPP) (90-43-7)	
26.	Garments, textile & textile products	Transmittance or blocking of UV radiation through fabric	AATCC TM183:2020 EN 13758-1:2001+A1:2006 & EN 13758-2:2003+A1:2006 AS-NZS 4399:1996

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
27.	Garments, textile & textile products	Determination of polycyclic aromatic hydrocarbons (PAHs)	AfPS GS 2019: 01 PAK ISO 18287:2006 ZEK 01.4-08
		Naphthalene (NAP) (91-20-3)	
		Acenaphthylene (ANY) (208-96-8)	
		Acenaphthene (ANA) (83-32-9)	
		Fluorene (FLU) (86-73-7)	
		Phenanthrene (PHE) (85-01-8)	
		Anthracene (ANT) (120-12-7)	
		Fluranthene (FLT) (206-44-0)	
		Pyrene (PYR) (129-00-0)	
		Benzo(a)anthracene (BaA) (56-55-3)	
		Chrysene (CHR) (218-01-9)	
		Benzo(b)fluoranthene (BbF) (205-99-2)	
		Benzo(k)fluoranthene (BkF) (207-08-9)	
		Benzo(a)pyrene (BaP) (50-32-8)	
		Indeno(1,2,3-cd) pyrene (IPY) (193-39-5)	
		Dibenzo(a,h)anthracene (DBA) (53-70-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Hazardous & Restricted Chemicals		
		Benzo(g,h,i)perylene (BPE) (191-24-2)	
		Benzo(j)fluoranthene (BjF) (205-82-3)	
		Benzo(e)pyrene (BeP) (192-97-2)	
		Cyclopenta[c,d]pyrene (CPP) (27208-37-3)	
		Dibenzo(a,e)pyrene [DB(a,e)P] (192-65-4)	
		Dibenzo(a,h)pyrene [DB(a,h)P] (189-64-0)	
		Dibenzo(a,i)pyrene [DB(a,i)P] (189-55-9)	
		Dibenzo(a,l)pyrene [DB(a,l)P] (191-30-0)	
		(2381-21-7)	
		1-Methylpyrene (1-MP)	
		1-Methylnaphthalene (90-12-0)	
		2-Methylnaphthalene (91-57-6)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
1.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Dimensional changes after home laundering	AATCC 135: 2018 AATCC 150: 2018
2.		Dimensional change after washing	ISO 3759: 2011/ 5077:2007/ 6330: 2021 SASO ISO 3759: 2011/ 5077: 2007/ 6330: 2012 AS 2001.5.4:2005 (R2016) AS 2001.5.7:1986 (R2016)
3.		Dimensional stability to dry-cleaning	ISO 3175-1: 2017/ 3175-2: 2017 AATCC 158: 2016
4.		Smoothness appearance of fabrics after repeated home laundering	ISO 7768: 2009 AATCC 124: 2018
5.		Appearance of apparel and other textile end product after repeated home laundering	ISO 15487: 2018 AATCC 143: 2018
6.		Evaluation smoothness of seam in fabric after repeated home laundering	ISO 7770: 2009 AATCC 88 B: 2018
7.		Retention of creases in fabric after repeated home laundering	ISO 7769: 2009 AATCC 88C:2018
8.		Skewness change /spirality / torque	ISO 16322-1: 2005 ISO 16322-2: 2021 ISO 16322-3: 2021 AATCC 179: 2019

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
9.		Determination of dimensional change of fabric induced by free steam	ISO 3005: 1978 BS 4323: 1979 SASO ISO 3005: 1978
10.		Absorbency	AATCC 79: 2018 EN 14697: 2005
11.		Wicking procedure/ vertical wicking of textiles	AATCC /TS-017: 2017 AATCC 197:2022
12.		Fabric and garment odour	SNV 195651 :1968
13.		Color fastness to organic solvent	ISO 105 X05: 1994
			SASO ISO 105 X05: 1994
14.		Color fastness to perspiration and light	AATCC 125: 2013 (2020 E2) ISO 105 B07:2009
15.		Color fastness to dye transfer in storage	AATCC 163: 2013 (2020 E2)
16.		Color fastness to phenolic yellowing	ISO 105 X18: 2007
17.		Color fastness to ozone	ISO 105 G03: 1993
			AATCC 109:2016
18.		Fiber analysis (Qualitative & Quantitative)	AATCC 20: 2021
			AATCC 20A: 2021
			ISO 1833-1:2020 (Annex B) SASO ISO 1833-1:2006 (Annex B)
	ISO 1833-1:2020		
	ISO 1833-2:2020		
	SASO ISO 1833-2:2020		

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
			ISO 1833-3: 2019
			SASO ISO 1833-3: 2006
			ISO 1833-4:2017
			SASO ISO 1833-4: 2006
			ISO 1833-6: 2018
			SASO ISO 1833-6:2006
			ISO 1833-7:2017
			SASO ISO 1833-7: 2006
			ISO 1833-11:2017
			SASO ISO 1833-11: 2006
			ISO 1833-12:2020
			SASO ISO 1833-12: 2006
			ISO 1833-18:2020
			SASO ISO 1833-18:2019
			ISO 1833-20:2018
			ISO 1833-22:2020
			ISO 1833-24:2010
			ASTM D629:2015
			AS 2001.7:2005 (R2016)
19.		Color fastness to light	ISO 105 B02: 2014
			AATCC 16.3: 2020
			SASO ISO 105 B02: 2014
			AS 2001.4.B02:2011 (R2016)
20.		Color fastness to artificial saliva	DIN 53160:2023
			GB/T 18886:2019

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
21.	Garment & apparel-fabrics (woven & non-woven), grey fabric, finished fabric, terry fabrics & its products & yarns & chords	Color fastness to hot pressing	ISO 105 X11: 1994
			AATCC 133: 2013
22.		Color fastness to washing	ISO 105 C10: 2006
			ISO 105 C06: 2010
			AATCC 61: 2013
			SASO ISO 105 C10: 2007
			SASO ISO 105 C06: 2010
			AS 2001.4.15:2006 (R2016)
23.		Color fastness to dry cleaning	ISO 105 D01: 2010
			AATCC 132: 2013
			SASO ISO 105 D01: 2010
			AS 2001.4.16:1981 (R2016)
24.		Color fastness to water	ISO 105 E01: 2013
			AATCC 107: 2013
			SASO ISO 105 E01: 2013
			GB/T 5713:2013
			AS 2001.4.E01:2001 (R2016)
25.		Color fastness to sea water	ISO 105 E02: 2013
			AATCC 106: 2013
			SASO ISO 105 E02: 2013
			AS 2001.4.E02:2001 (R2016)
26.		Color fastness to chlorinated pool water	ISO 105 E03: 2010
			AATCC 162: 2011
			SASO ISO 105 E03: 2010

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
			AS/NZS 2001.4.5:1998 (R2016)
			AATCC 15: 2013
			ISO 105 E04: 2013
27.		Color fastness to perspiration	SASO GSO 1268: 2002
			AS 2001.4.E04:2005 (R2016)
			GB/T 3922:2013
28.		Color fastness to chlorine bleach	AATCC TS 001
29.		Color fastness to non - chlorine bleach	AATCC TS 001
			ISO 105 X12: 2016
			AATCC 8: 2016
			SASO ISO 105 X12: 2001
30.		Color fastness to rubbing /crocking	AATCC 116: 2018
			CAN CGSB 4.2 NO.22: 2004 (R2013)
			ISO 105 X16:2016
			AS 2001.4.3:1995 (R2016)
			ISO 105 E07: 2010
31.		Color fastness to water spotting	AATCC 104: 2014
			SASO ISO 105 E07: 2010
32.		Oil repellency	AATCC 118:2020
33.		Soil release-oily stain release method	AATCC 130:2018
34.		Water repellency-Spray Test	AATCC 22:2017

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
			ISO 4920: 2012
			GB/T 4745:2012



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
1.	Waste Water	AP/APEO	GC-BD-ENV-ZDHC-SOP-006 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. NP/OP: ISO 18857 -2 (Modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS) OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO (n=1,2): ISO 18857-2 or ASTM D7065
		Nonylphenol (NP), mixed isomers (104-40-5) (11066-49-2) (25154-52-3) (84852-15-3)	
		Octyl phenol (OP), mixed isomers (140-66-9) (1806-26-4) (27193-28-8)	
		Octyl phenol ethoxylates (OPEO) (9002-93-1) (9036-19-5) (68987-90-6)	
		Nonylphenol ethoxylates (NPEO) (9016-45-9) (26027-38-3) (37205-87-1) (68412-54-4) (127087-87-0)	
		AP/APEO	GC-BD-ENV-ZDHC-SOP-006

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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
2.	Sludge	Nonylphenol (NP), mixed isomers (104-40-5) (11066-49-2) (25154-52-3) (84852-15-3)	(ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. NP/OP: ISO 18857 -2 (Modified dichloromethane extraction) or ASTM D7065 (GC/MS or LC/MS(-MS)) OPEO/NPEO (n>2): ISO 18254-1 OPEO/NPEO (n=1,2): ISO 18857-2 or ASTM D7065
		Octyl phenol (OP), mixed isomers (140-66-9) (1806-26-4) (27193-28-8)	
		Octyl phenol ethoxylates (OPEO) (9002-93-1) (9036-19-5) (68987-90-6)	
		Nonylphenol ethoxylates (NPEO) (9016-45-9) (26027-38-3) (37205-87-1) (68412-54-4) (127087-87-0)	
3.	Waste Water	Chlorobenzenes and	GC-BD-ENV-ZDHC-SOP-002 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. USEPA 3650 8260D, 8270E. DIN 54232:2010 & BS EN 17137: 2018
		Mono-chlorobenzene	
		1,2-Dichlorobenzene (95-50-1)	
		1,3-Dichlorobenzene (541-73-1)	
		1,4-Dichlorobenzene (106-46-7)	
		1,2,3-Trichlorobenzene (87-61-6)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		1,2,4-Trichlorobenzene (120-82-1)	(Dichloromethane Extraction followed by GC/MS)
		1,3,5-Trichlorobenzene (108-70-3)	
		1,2,3,4-Tetrachlorobenzene (634-66-2)	
		1,2,3,5-Tetrachlorobenzene (634-90-2)	
		1,2,4,5-Tetrachlorobenzene (95-94-3)	
		Pentachloro benzene (608-93-5)	
		Hexachlorobenzene (118-74-1)	
		2-Chlorotoluene (95-49-8)	
		3-Chlorotoluene (108-41-8)	
		4-Chlorotoluene (106-43-4)	
		2,3-Dichlorotoluene (32768-54-0)	
		2,4-Dichlorotoluene (95-73-8)	
		2,5-Dichlorotoluene (19398-61-9)	
		2,6-Dichlorotoluene (118-69-4)	
		3,4-Dichlorotoluene (95-75-0)	
		3,5-Dichlorotoluene (25186-47-4)	
		2,3,4-Trichlorotoluene (7359-72-0)	
		2,3,6-Trichlorotoluene (2077-46-5)	
		2,4,5-Trichlorotoluene (6639-30-1)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		2,4,6-Trichlorotoluene (23749-65-7)	
		3,4,5-Trichlorotoluene (21472-86-6)	
		2,3,4,5-Tetrachlorotoluene (76057-12-0)	
		2,3,5,6-Tetrachlorotoluene (29733-70-8)	
		2,3,4,6-Tetrachlorotoluene (875-40-1)	
		Penta chlorotoluene (877-11-2)	
4.	Waste Water	Chlorophenols	
		2-chlorophenol (95-57-8)	
		3-chlorophenol (108-43-0)	
		4-chlorophenol (106-48-9)	
		2,3-dichlorophenol (576-24-9)	
		2,4-dichlorophenol (120-83-2)	
		2,5-dichlorophenol (583-78-8)	
		2,6-dichlorophenol (87-65-0)	
		3,4-dichlorophenol (95-77-2)	
		3,5-dichlorophenol (591-35-5)	
		2,3,4-trichlorophenol (15950-66-0)	
		2,3,5-trichlorophenol (933-78-8)	
		2,3,6-trichlorophenol (933-75-5)	
		2,4,5-trichlorophenol (95-95-4)	
			GC-BD-ENV-ZDHC-SOP-005 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. USEPA 8270E. (Solvent extraction, derivatization with KOH, acetic anhydride followed by GC/MS) BS EN 12673:1999 ISO 14154:2005

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		2,4,6-trichlorophenol (88-06-2)	
		3,4,5-trichlorophenol (609-19-8)	
		2,3,4,5-tetrachlorophenol (4901-51-3)	
		2,3,4,6-tetrachlorophenol (58-90-2)	
		2,3,5,6-tetrachlorophenol (935-95-5)	
		Pentachlorophenol (87-86-5)	
5.	Waste Water	Dyes – Azo (Forming restricted amines)	
		4,4'-methylene-bis-(2-chloro-aniline) (101-14-4)	
		4,4'-methylenedianiline (101-77-9)	
		4,4'-oxydianiline (101-80-4)	
		4-chloroaniline (106-47-8)	
		3,3'-dimethoxybenzidine (119-90-4)	
		3,3'-dimethylbenzidine (119-93-7)	
		6-methoxy-m-toluidine (120-71-8)	
		2,4,5-trimethylaniline (137-17-7)	
			GC-BD-ENV-ZDHC-SOP-001 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022)
			Based on ref.
			EN 14362-1
			EN 14362-3
			EPA 8270 Reduction step with sodium dithionite, solvent extraction, GC/MS or LC/MS

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		4,4'-thiodianiline (139-65-1)	
		4-aminoazobenzene (60-09-3)	
		4-methoxy-m-phenylenediamine (615-05-4)	
		4,4'-methylenedi-o-toluidine (838-88-0)	
		2,6-xylydine (87-62-7)	
		o-anisidine (90-04-0)	
		2-naphthylamine (91-59-8)	
		3,3'-dichlorobenzidine (91-94-1)	
		4-aminodiphenyl (92-67-1)	
		Benzidine (92-87-5)	
		o-toluidine (95-53-4)	
		2,4-xylydine (95-68-1)	
		4-chloro-o-toluidine (95-69-2)	
		4-methyl-m-phenylenediamine (95-80-7)	
		o-aminoazotoluene (97-56-3)	
		5-nitro-o-toluidine (99-55-8)	
		2-Naphthylammoniumacetate (553-00-4)	
		2,4,5-trimethylaniline (21436-97-5)	
		4-Chloro-o-toluidinium (3165-93-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate (39156-41-7)	
6.	Waste Water	Dyes – Carcinogenic or Equivalent Concern	GC-BD-ENV-ZDHC-SOP-007 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) (Liquid extraction, LC/MS)
		Basic violate 3 with >0.1% of Michler's Ketone (548-62-9)	
		C.I. Acid Violet 49 (1694-09-3)	
		C.I. Direct Black 38 (1937-37-7)	
		C.I. Direct Blue 6 (2602-46-2)	
		C.I. Acid Red 26 (3761-53-3)	
		C.I. Basic Red 9 (569-61-9)	
		C.I. Direct Red 28 (573-58-0)	
		C.I. Basic Violet 14 (632-99-5)	
		C.I. Disperse Blue 1 (2475-45-8)	
		C.I. Disperse Blue 3 (2475-46-9)	
		C.I. Basic Blue 26 (with Michler's Ketone > 0.1%) (2580-56-5)	
		C.I. Basic Green 4 (Malachite Green Chloride) (569-64-2)	
		C.I. Basic Green 4 (Malachite Green Oxalate) (2437-29-8)	
		C.I. Basic Green 4 (Malachite Green) (10309-95-2)	
		Disperse Orange 11 (82-28-0)	

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QAI/CIA/TL/2024/0065

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
7.	Waste Water	Dyes – Disperse (Sensitizing)	GC-BD-ENV-ZDHC-SOP-007 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) (Liquid extraction, LC/MS)
		Disperse yellow 1 (119-15-3)	
		Disperse blue 102 (12222-97-8)	
		Disperse blue 106 (12223-01-7)	
		Disperse yellow 39 (12236-29-2)	
		Disperse orange 37/59/76 13301-61-6 (13301-61-6)	
		Disperse brown 1 (23355-64-8)	
		Disperse orange 1 (2581-69-3)	
		Disperse yellow 3 (2832-40-8)	
		Disperse red 11 (11 2872-48-2)	
		Disperse red 1 (2872-52-8)	
		Disperse red 17 (3179-89-3)	
		Disperse blue 7 (3179-90-6)	
		Disperse blue 26 (3860-63-7)	
		Disperse yellow 49 (54824-37-2)	
		Disperse blue 35 (12222-75-2)	
		Disperse blue 124 (61951-51-7)	
		Disperse yellow 9 (6373-73-5)	
		Disperse orange 3 (730-40-5)	
		Disperse blue 35 (56524-77-7)	
7.	Waste Water	Organotin compounds	GC-BD-ENV-ZDHC-SOP-003 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022)
		Trimethyltin TMT	
		Dimethyltin DMT	
		Monomethyltin MMT	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Tetraethyltin TeET	Based on ref. ISO 17353 Derivatization with NaB (C ₂ H ₅) GC/MS
		Dichlorodipropyltin DPrT	
		Monobutyltin MBT	
		Tri-n-propyltin TPrT	
		Dibutyltin DBT	
		Monophenyltin MPhT	
		Tributyltin TBT	
		Mono-n-Octyltin MOT	
		Tetrabutyltin TeBT	
		Diphenyltin DPhT	
		Di-n-octyltin DOT	
		Triphenyltin TPhT	
		Tri-Cyclohexyltin TCyT	
		Di-Propyltin (DPT)	
		Tri-n-octyltin TOT	
8.	Waste Water	Ortho-Phthalates – Including all ortho esters of phthalic acid	GC-BD-ENV-ZDHC-SOP-004 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 8270E, ISO 18856 Dichloromethane extraction GC/MS
		Di(ethylhexyl) phthalate (DEHP) (117-81-7)	
		Bis(2-methoxyethyl) phthalate (DMEP) (117-82-8)	
		Di-n-octyl phthalate (DNOP) (117-84-0)	
		Di-iso-decyl phthalate (DIDP) (26761-40-0)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Di-isononyl phthalate (DINP) (28553-12-0)	
		Di-n-hexyl phthalate (DnHP) (84-75-3)	
		Dibutyl phthalate (DBP) (84-74-2)	
		Butyl benzyl phthalate (BBP) (85-68-7)	
		Dinonyl phthalate (DNP) (84-76-4)	
		Diethyl phthalate (DEP) (84-66-2)	
		Di-n-propyl phthalate (DPRP) (131-16-8)	
		Di-isobutyl phthalate (DIBP) (84-69-5)	
		Di-cyclohexyl phthalate (DCHP) (84-61-7)	
		Di-iso-octyl phthalate (DIOP) (27554-26-3)	
		1,2-benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters (DHNUP) (68515-42-4)	
		1,2-benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7- rich (DIHP) (71888-89-6)	
		Di-n-pentyl phthalates (DiNP) (131-18-0)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Diisopentylphthalates (605-50-5)	
9.	Waste Water	Polycyclic Aromatic Hydrocarbons (PAHs)	GC-BD-ENV-ZDHC-SOP-008 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 8270 DIN 38407-39 US EPA 3540/3541, USEPA 3550, US EPA 3560, US EPA 3650, Solvent extraction GC/MS
		Naphthalene (NAP) (91-20-3)	
		Acenaphthylene (ANY) (208-96-8)	
		Acenaphthene (ANA) (83-32-9)	
		Fluorene (FLU) (86-73-7)	
		Phenanthrene (PHE) (85-01-8)	
		Anthracene (ANT) (120-12-7)	
		Fluranthene (FLT) (206-44-0)	
		Pyrene (PYR) (129-00-0)	
		Benzo(a)anthracene (BaA) (56-55-3)	
		Chrysene (CHR) (218-01-9)	
		Benzo(b)fluoranthene (BbF) (205-99-2)	
		Benzo(k)fluoranthene (BkF) (207-08-9)	
		Benzo(a)pyrene (BaP) (50-32-8)	
		Indeno(1,2,3-cd) pyrene (IPY) (193-39-5)	
		Dibenzo(a,h)anthracene (DBA) (53-70-3)	
		Benzo(g,h,i)perylene (BPE)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		(191-24-2)	
		Benzo(j)fluoranthene (BjF) (205-82-3)	
		Benzo(e)pyrene (BeP) (192-97-2)	
10.	Sludge	Polycyclic Aromatic Hydrocarbons (PAHs)	GC-BD-ENV-ZDHC-SOP-008 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 8270 DIN 38407-39 US EPA 3540/3541, USEPA 3550, US EPA 3560, US EPA 3650, Solvent extraction GC/MS
		Naphthalene (NAP) (91-20-3)	
		Acenaphthylene (ANY) (208-96-8)	
		Acenaphthene (ANA) (83-32-9)	
		Fluorene (FLU) (86-73-7)	
		Phenanthrene (PHE) (85-01-8)	
		Anthracene (ANT) (120-12-7)	
		Fluranthene (FLT) (206-44-0)	
		Pyrene (PYR) (129-00-0)	
		Benzo(a)anthracene (BaA) (56-55-3)	
		Chrysene (CHR) (218-01-9)	
		Benzo(b)fluoranthene (BbF) (205-99-2)	
		Benzo(k)fluoranthene (BkF) (207-08-9)	GC-BD-ENV-ZDHC-SOP-008 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 8270 DIN 38407-39 US EPA 3540/3541,
		Benzo(a)pyrene (BaP) (50-32-8)	
		Indeno(1,2,3-cd) pyrene (IPY)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		(193-39-5)	USEPA 3550, US EPA 3560, US EPA 3650, Solvent extraction GC/MS
		Dibenzo(a,h)anthracene (DBA) (53-70-3)	
		Benzo(g,h,i)perylene (BPE) (191-24-2)	
		Benzo(j)fluoranthene (BjF) (205-82-3)	
		Benzo(e)pyrene (BeP) (192-97-2)	
11.	Sludge	Chlorotoluene's	GC-BD-ENV-ZDHC-SOP-002 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. USEPA 3650 USEPA 827
		2-Chlorotoluene (95-49-8)	
		3-Chlorotoluene (108-41-8)	
		4-Chlorotoluene (106-43-4)	
		2,3-Dichlorotoluene (32768-54-0)	
		2,4-Dichlorotoluene (95-73-8)	
		2,5-Dichlorotoluene (19398-61-9)	
		2,6-Dichlorotoluene (118-69-4)	
		3,4-Dichlorotoluene (95-75-0)	
		3,5-Dichlorotoluene (25186-47-4)	
		2,3,4-Trichlorotoluene (7359-72-0)	
		2,3,6-Trichlorotoluene (2077-46-5)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		2,4,5-Trichlorotoluene (6639-30-1)	
		2,4,6-Trichlorotoluene (23749-65-7)	
		3,4,5-Trichlorotoluene (21472-86-6)	
		2,3,4,5-Tetrachlorotoluene (76057-12-0)	
		2,3,5,6-Tetrachlorotoluene (29733-70-8)	
		2,3,4,6-Tetrachlorotoluene (875-40-1)	
		Penta chlorotoluene (877-11-2)	
12.	Waste Water	Dyes-Navy Blue colorant's	GC-BD-ENV-ZDHC-SOP-007 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Liquid Extraction by LC/MS
		C39H23Cl-CrN7O12S 2Na (118685-33-9)	
13.	Waste Water	Glycols/ Glycol Ethers	GC-BD-ENV-ZDHC-SOP-009 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) USEPA 8270E
		Ethylene glycol dimethyl ether (110-71-4)	
		2-Methoxyethanol (109-86-4)	
		2-Ethoxyethanol (110-80-5)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		2-Methoxyethyl acetate (110-49-6)	
		2-Methoxypropyl acetate (70657-70-4)	
		2-Ethoxyethyl acetate (111-15-9)	
		Bis(2-methoxyethyl)-ether (111-96-6)	
		Triethylene glycol dimethyl ether (112-49-2)	
14.	Waste water	Flame Retardants	GC-BD-ENV-ZDHC-SOP-010 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) USEPA 8270E, USEPA 527 and USEPA 8321B Dichloromethane extraction GC-MS or LC-MS
		2,2-bis(bromomethyl)-1,3-propanediol (BBMP) (3296-90-0)	
		Bis(2,3-dibromopropyl) phosphate (BIS) (5412-25-9)	
		Decabromodiphenyl ether (1163-19-5)	
		Hexabromocyclodecane (HBCDD) (3194-55-6)	
		Octabromodiphenyl ether (OctaBDE) (32536-52-0)	
		Pentabromodiphenyl ether (PentaBDE) (32534-81-9)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Polybromobiphenyls (PBB) (59536-65-1)	
		Tetrabromobisphenol A (TBBPA) (79-94-7)	
		Tris-(2-chloro-1-methylethyl) phosphate (TCPP) (13674-84-5)	
		Tris(1-aziridinyl) phosphine oxide) (TEPA) (545-55-1)	
		Tris(1-aziridinyl) phosphine oxide) (TEPA) (545-55-1)	
		Tris(1,3-dichloro-isopropyl) phosphate (TDCP) (13674-87-8)	
		Tris(2-chloroethyl) phosphate (TCEP) (115-96-8)	
		Tris (2,3- dibromopropyl)- phosphate (TRIS) (126-72-7)	
		Deca bromobiphenyl (DecaBB) (13654-09-6)	
		Dibromobiphenyls (DiBB) (Multiple)	
		Octa bromobiphenyls (OctaBB) (Multiple)	
		Dibromopropylether (21850-44-2)	
		Heptabromodiphenyl ether (HeptaBDE) (68928-80-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Hexabromodiphenyl ether (HexaBDE) (36483-60-0)	
		Monobromobiphenyls (MonoBB) (Multiple)	
		Nonabromobiphenyls (NonaBB) (Multiple)	
		Monobromodiphenylethers (MonoBDEs) (Multiple)	
		Nonabromodiphenyl ether (NonaBDE) (63936-56-1)	
		Tetrabromodiphenyl ether (TetraBDE) (40088-47-9)	
		Tribromodiphenylethers (TriBDEs) (Multiple)	
		Boric acid (10043-35-3) (11113-50-1)	
		Diboron trioxide (1303-86-2)	
		Disodium octaborate (12008-41-2)	
		Disodium tetraborate anhydrous (1303-96-4) (1330-43-4)	
		Tetraboron disodium heptaoxide, hydrate (12267-73-1)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
15.	Waste water	Dimethyl formamide; N,N-dimethylformamide (DMFa) ^a 68-12-2	GC-BD-ENV-ZDHC-SOP-011 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) EPA 8015, EPA 8270E
16.	Waste Water	Biochemical oxygen demand (BOD) in waste water	GC-BD-ENV-SOP-002 (ZDHC Wastewater Guidelines, Version- 2.1, March, 2022) Based on ref. US EPA 405.1 (5 days) APHA 5210B (5 days)
17.	Waste Water	Chemical oxygen demand (COD) in waste water	GC-BD-ENV-SOP-003 (ZDHC Wastewater Guidelines, Version- 2.1, March, 2022) Based on ref. US EPA 410.4 APHA 5220D
18.	Waste Water & Sludge	Chromium (Cr -VI)	APHA 3500- Cr (VI) B. 23rd (2017) & 3060 a USEPA 218.6
19.	Waste water & Sludge	pH value	GC-BD-ENV-SOP-006 (ZDHC Wastewater Guidelines, Version- 2.1, March, 2022) Based on ref. APHA 4500-H+ B. 23rd (2017) EPA 9045D, EPA 150.1, EPA SW 9045D

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
20.	Waste water & sludge	Cyanide (Total) in waste water & sludge	GC-BD-ENV-SOP-011 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. USEPA 335.2, USEPA 9013, EPA 9014/ EPA 9213 APHA 4500-CN
21.	Sludge	% Solids	APHA 2540 B 23rd (2017) & US EPA 160.3
22.	Sludge	Paint filter test	EPA 9095B
23.	Waste water	Heavy metals-lead (Pb)	GC-BD-ENV-SOP-015 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 200.8 US EPA 6010c US EPA 6020a APHA 3030 & 3120, 23rd (2017) US EPA 3050 & USEPA 3052 EPA 245.1 EPA 245.7
		Cadmium (Cd)	
		Arsenic (As)	
		Mercury (Hg)	
		Chromium (Cr), total	
		Cobalt (Co)	
		Nickel (Ni)	
		Copper (Cu)	
		Antimony (Sb)	
		Silver (Ag)	
		Zinc (Zn)	
		Barium (Ba)	
		Selenium (Se)	
		Tin (Sn)	
24.	Sludge	Heavy Metals-	GC-BD-ENV-SOP-015
		Lead (Pb)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Cadmium (Cd)	(ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 200.8 US EPA 6010c US EPA 6020a APHA 3030 & 3120, 23rd (2017) US EPA 3050 & USEPA 3052 EPA 245.1 EPA 245.7
		Arsenic (As)	
		Mercury (Hg)	
		Chromium (Cr), total	
		Cobalt (Co)	
		Nickel (Ni)	
		Copper (Cu)	
		Antimony (Sb)	
		Silver (Ag)	
		Zinc (Zn)	
		Barium (Ba)	
		Selenium (Se)	
		Tin (Sn)	
25.	Waste water	Ammonium-Nitrogen in waste water	GC-BD-ENV-SOP-001 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 350.1 USEPA 350.3 APHA 4500 NH ₃ -D
26.	Waste water	Oil & grease in waste water	GC-BD-ENV-SOP-005 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 1664 APHA 5520 B

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
27.	Waste water	Total Nitrogen in waste water	GC-BD-ENV-SOP-004 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 351.2 APHA 4500 P-J, 4500 N-C
28.	Waste water	Total phosphorus in waste water	GC-BD-ENV-SOP-009 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 365.4 APHA 4500 P
29.	Waste water	Total suspended solid (TSS) in waste water	GC-BD-ENV-SOP-010 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. US EPA 160.2 APHA 2540 D
30.	Waste water	Temperature of waste water	GC-BD-ENV-SOP-008 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 2550 B, 23rd (2017) US EPA 170.1
31.	Waste water	Total phenol in waste water	GC-BD-ENV-SOP-012 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 5530 B, C& D. 23rd (2017) EPA 420.1

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Scope of Accreditation

Geo Chem Consumer Products Services (CPS) Ltd.

SB Plaza (6th & 7th floor), Plot No. 37, Sector- 3, Uttara Commercial Area,
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QAI/CIA/TL/2024/0065

Valid from: 11 July 2024

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
32.	Waste water	Sulfide in waste water	GC-BD-ENV-SOP-017 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 4500-S2-D
33.	Waste water	Sulfite in waste water	GC-BD-ENV-SOP-019 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 4500-SO3 2- B. 23rd (2017) USEPA 377.1
34.	Waste water	Sulfate in waste water	GC-BD-ENV-SOP-020 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 4500-SO4 E 23rd (2017) USEPA 300 & USEPA 9038
35.	Waste water	Chloride in waste water	GC-BD-ENV-SOP-021 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 4500-Cl-B 23rd (2017) USEPA 300
36.	Waste water	Dissolved oxygen (DO)	GC-BD-ENV-SOP-022 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) ased on ref. APHA 4500-O-G, H, 23rd (2017) EPA 360.1

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
37.	Waste water	Total chlorine	GC-BD-ENV-SOP-027 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 4500–Cl-B 23rd (2017) EPA 330.5
38.	Waste water	Total dissolved solids (TDS)	GC-BD-ENV-SOP-024 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. APHA 2540-C 23rd (2017) USEPA 160.1
39.	Waste water	Determination of true color (ISO) using optical instruments of waste water	GC-BD-ENV-SOP-007 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) Based on ref. ISO 7887: 2011 Method B
40.	Waste water	Adsorbable organic halides (AOX) in waste water	USEPA 1650
41.	Waste water	Persistent foam	Visual Assessment
42.	Waste water	Flowrate	Visual Assessment
43.	Waste water	Perfluorinated and polyfluorinated chemicals (PFCs)	GC-BD-ENV-ZDHC-SOP-012 (ZDHC wastewater guidelines, version-2.1, March, 2022) PFCs: EPA 537:2020 FTOH: BS EN 12673-1999,
		Perfluorooctane sulfonate (PFOS) and related substances	
		Perfluoropentanoic acid (PFPeA) and salts (2706-90-3)	

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Perfluorohexanoic acid (PFHxA) and salts (307-24-4)	EPA 8270, PFCs: LC-MSMS FTOH: GC-MS derivatization with acetic anhydride followed by GC-MS
		Perfluoroheptanoic acid (PFHpA) and salts (375-85-9)	
		HPFHpA, and salts (1546-95-8)	
		Perfluorooctanoic Acid (PFOA) and salts (335-67-1)	
		PF-3,7-DMOA, and salts (172155-07-6)	
		Perfluorononanoic Acid (PFNA) and salts (375-95-1)	
		Perfluorodecanoic Acid (PFDA) and salts (335-76-2)	
		Perfluoroundecanoic Acid (PFUnDA) and salts (2058-94-8)	GC-BD-ENV-ZDHC-SOP-012 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) PFCs: EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS FTOH: GC-MS Derivatization with acetic anhydride followed by GC-MS
		4HPFUnA, and salts (34598-33-9)	
		Perfluorododecanoic Acid (PFDoA) and salts (307-55-1)	
		Perfluorotetradecanoic Acid (PFTeDA) and salts (376-06-7)	
		Perfluorobutansulfonate (PFBS) and salts (375-73-5) (59933-66-3)	

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Chemical Testing			
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	Pollution and Environment		
		Perfluorohexansulfonate (PFHxS) and salts (355-46-4)	
		Perfluoroheptansulfonate (PFHpS) and salts (375-92-8)	
		Perfluorooctansulfonate (PFOS) and salts (1763-23-1)	
		1H,1H,2H,2H-PFOS, and salts (27619-97-2)	
		Perfluoro-1-octanesulfonamide (PFOSA) (754-91-6)	
		N-methylperfluoro-1-octanesulfonamide (N-eFOSA) (31506-32-8)	
		N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA) (4151-50-2)	
		1H,1H,2H,2H-perfluoro-1-octanol (6:2 FTOH) (647-42-7)	
		1H,1H,2H,2H-perfluoro-1-decanol (8:2 FTOH) (678-39-7)	
44.	Waste Water	Chlorinated paraffins	GC-BD-ENV-ZDHC-SOP-012 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022)
		Medium-chain chlorinated paraffins (MCCPs) (C14-C17)	PFCs: EPA 537:2020 FTOH: BS EN 12673-1999, EPA 8270, PFCs: LC-MSMS FTOH: GC-MS Derivatization with acetic anhydride followed by GC-MS
			GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		Short-chain chlorinated paraffin (C10 – C13)	EPA 3510, ISO18219-1:2021, ISO 18219-2:2021
45.	Waste Water	Other/miscellaneous chemicals	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) EPA 8270, Liquid-Liquid Extraction followed by LC MS/MSSOP
		AEEA [2-(2-aminoethylamino) ethanol]	
		Bisphenol A	
		Thiourea	
		Quinoline	
		Borate, zinc salt	
46.	Waste Water	Anti- microbials & biocides	GC-BD-ENV-ZDHC-SOP-005 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) LFGB.82.02-8, USEPA 8270D, USEPA 8270E, ISO 17070: 2015 & BSEN 12637-1999
		o-Phenyl phenol (+salts)	
		Triclosan	GC-BD-ENV-ZDHC-SOP-013 (ZDHC Wastewater Guidelines, Version-2.1, March, 2022) EPA 8270, Liquid-Liquid Extraction followed by LC MS/MS
		Permethrin	
47.	Waste Water	UV Absorbers	GC-BD-ENV-ZDHC-SOP-013

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution and Environment		
		2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	(ZDHC Wastewater Guidelines, Version-2.1, March, 2022) USEPA 8270, ISO 22032, USEPA 527 and USEPA 8321B
		2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	
		2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	
		2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl) phenol (UV-327)	

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
1.	Garment & Apparel-Fabrics (Woven & Non-Woven), Grey Fabric, Finished Fabric, Terry Fabrics & its products & Yarns & Chords	Tensile properties- strip method	ISO 13934 -1 : 2013 ASTM D5035: 2011 (R-2019) SASO ISO 13934 - 1: 2003
2.		Tensile properties- grab method	ISO 13934-2: 2014 ASTM D5034-2021 AS 2001.2.3.2:2001
3.		Tear strength (Elmendorf method)	ISO 13937-1:2000/Cor1 2004 ASTM D1424: 2021 SASO ISO 13937 - 1: 1990 AS 2001.2.8:2001 (R2016)
4.		Tear strength	ISO 13937-2:2000 ASTM D2261:2013 (R-2017)
5.		Seam strength - strip method	ISO 13935 - 1: 2014
6.		Seam strength- grab method	ISO 13935-2: 2014
7.			AS 2001.2.20:2004 (R2016)
8.		Seam Slippage	ASTM D 1683:2022
9.		Seam slippage: fixed seam opening method	ISO 13936-1 : 2004
10.		Seam slippage: fixed load method	ISO 13936-2: 2004 AS 2001.2.21:1989 (R2016) AS 2001.2.22:2006 (R2016)
11.		Bursting strength: hydraulic method	ISO 13938 - 1: 2019 SASO ISO 13938-1:1999 ASTM D3786/D3786M-18 (R2023)
12.			ISO 13938 - 2: 2019

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
13.		Bursting strength: Pneumatic	SASO 1630: 1999 Clause 16
14.		Pilling resistance-ICI pilling	ISO 12945-1: 2020
15.		Pilling resistance- random tumble	ISO 12945-3: 2020
16.		pilling method	ASTM D3512 M:2016
17.		Abrasion resistance	ISO 12947-2:2016
18.		Abrasion resistance	ISO 12947-3:1998
19.		Abrasion resistance	ISO 12947-4:1998
20.		Abrasion resistance	ASTM D4966-2022 Option-1
21.		Abrasion resistance	ASTM D4966-2022 Option-2
22.		Abrasion resistance	ASTM D4966-2022 Option-3
23.		Fabric weight per unit area (GSM)	ISO 3801: 1977 (M-05)
24.			BS EN 12127: 1998
25.			ASTM D 3776 /D3776 M-09a (2020) Option C
26.			SASO ISO 3801: 1977 (M-05)
27.			AS 2001.2.13:1987 (R2016)
28.		Flammability of general clothing textiles	16 CFR 1610: 2023
29.			CAN/CGSB-4.2 No. 27.5:2023
30.			16 CFR 1615:2010
31.			16 CFR 1616:2010
32.			ASTM D1230:2022
33.			BS EN 14878:2007
34.		Stretch and recovery (Knitted)	ASTM D2594 :2021
35.		Stretch and recovery (Woven)	ASTM D3107: 2007 (R-2019)
36.		Yarn count	ASTM D1059: 2017

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
26.		Determination of courses and wales	ASTM D8007: 2019
27.			SASO 1170: 1997 Clause 7
			AS 2001.2.6:2001 (R2016)
		Thread per unit length (woven fabric construction)	ISO 7211-2: 1984
28.			ASTM D3775: 2017e1
			BS EN 1049-2: 1994
			AS 2001.2.5:1991 (R2016)
			EN 14971:2006
29.		Martindale pilling	ISO 12945-2:2020
		Fabric width	ISO 22198: 2006
30.			ASTM D3774: 2018
			SASO ISO 22198: 2006 /2015
31.		Distortion in bowed and skewed fabrics	ASTM D3882: 2008 (R-2020)
32.		Yarn twist	ASTM D1422:2020
			ASTM D1423:2022
33.		Determination of linear density of yarn removed from fabric	ISO 7211-5:2020
			EN 14970:2006
34.		Determination of dimension	ISO 3018: 1974
35.			SASO 1626: 2002 (Clause 15 & 16)
36.		Determination of the elasticity of fabric strip test	ISO 20932-1:2018
37.		Sharp edge and sharp point	ASTM F963: 2023 (4.7 & 4.9)
			16 CFR 1500.48
			16 CFR 1500.49

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
38.		Sharp point, sharp edge and small part	BS EN 71 Part -1: 2014+A1:2018 (4.7)
			BS EN 71 Part -1: 2014+A1:2018 (4.8)
			BS EN 71 Part -1: 2014+A1:2018 (8.2)
39.		Small parts (choking hazards)	16 CFR 1501
40.		Torque & tension test	16 CFR 1500.51
			16 CFR 1500.52
			16 CFR 1500.53
			BS EN 71 Part -1: 2014+A1:2018 (8.3)
			BS EN 71 Part -1: 2014+A1:2018 (8.4)
			ASTM F 963: 2017 (Section 8.8 & 8.9)
41.		Button impact resistance	ASTM D5171:15 (2020)
42.		Slide fasteners (zipper) tests: top stop strength	BS EN 16732:2015
			BS 3084:2006
43.		Slide fasteners (zipper) tests: bottom stop strength	BS EN 16732:2015
			BS 3084:2006
44.		Slide fasteners (zipper) tests: open end slide fastener single stringer slider retention	BS EN 16732:2015
			BS 3084:2006
45.			BS EN 16732:2015

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Mechanical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Textile		
		Slide fasteners (zipper) tests: torque strength	BS 3084:2006
46.		Slide fasteners (zipper) tests: lateral strength of open-end attachment	BS EN 16732:2015
			BS 3084:2006
47.		Slide fasteners (zipper) tests: lateral strength of slide fastener	BS EN 16732:2015
			BS 3084:2006
48.		Slide fasteners (zipper) tests: puller attachment strength	BS EN 16732:2015
			BS 3084:2006
49.		Slide fasteners (zipper) tests: open end slide fastener box	BS EN 16732:2015
			BS 3084:2006
50.		Slide fasteners (zipper) tests: resistance to reciprocating	BS EN 16732:2015
			BS 3084:2006
51.		Slide fasteners (zipper) tests: slider lock holding strength	BS EN 16732:2015
			BS 3084:2006
52.		Zipper strength test	ASTM D 2061:07 (2021) Sec-(9 to 15), Sec-(17 to 23), Sec-(25 to 31), Sec (52-60), (70 to 80) & (92 to 99)]
53.		Standard test method for operability of zippers-opening & closing of zippers	ASTM D 2062:03 (2021) Sec-(14-17)
54.		Standard test method for pile fabric abrasion	ASTM D 4685:2020

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	Textile		
55.		Standard test method for resistance to unsnapping of snap	ASTM D 4846:96 (2021)
56.		Standard test method for holding strength of prong-ring attached	ASTM D 7142:05 (2021)
57.		Seam twist	AATCC TS-004
58.		Methods of test for knitted fabrics	BS 5441:1988+A1:2019 (Sec-2, Part-8)
59.		Method for determination of removal force of attached components	BS 7907:2007 (Annex-B)
60.		Method for determination of removal force of attached non-grippable component	BS 7907:2007 (Annex- C)

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