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Technical Document	Article-	**Cedar**	Release Date-	**01 February 2026**
Description-	16 Wale Cord		Composition-	98% PIMA CO, 2% EA
Applications-	Apparel			

Weight (g/m2)	245		UNI 5114
Weight Linear (g/m)	343		
Warp Yarn per Inch	100		UNI EN 1049/2
Weft Yarn per Inch	206		
Warp Yarn Count	32		ISO 7211/5
Weft Yarn Count	32		
Minimum Usable Width	140cm		UNI EN 1773
Customs Tariff Code (HS)	58013200		
County of Origin	China		
Yarn Origin	USA		
Weaving Origin	China		
Dyeing/Finishing Origin	China		
Sample/Bulk Leadtime (Weeks)	Stock Supported		
Manufacturing Features-			
Piece Dye	Jig Dyeing Method	Reactive Dyestuffs	
Care Instructions-			UNI EN ISO 3758
Dimensional Stability-			
Domestic Washing	Warp	+/- 3%	ISO 6330:2021
	Weft	+/- 3%	
Steam Ironing	Warp	+/- 3%	DIN 53894-2
	Weft	+/- 3%	
Dry Cleaning	Warp	+/- 3%	UNI EN ISO 3175-2
	Weft	+/- 3%	
Physical Features-			
Tensile Strength	Warp	300 N	UNI EN ISO 13934-2
	Weft	170 N	
Tear Strength	Warp	7 N	UNI EN ISO 13937-2
	Weft	7 N	
Seam Slippage (6mm)	Warp	> 120	UNI EN ISO 13936-1
	Weft	> 120	
Abrasion Resistance	Face	Grade 3/4 @ 5000 Rubs	UNI EN ISO 12947-2
Martindale	Face	No Breakdown @ 30000 Rubs	
Pilling (2000 Revolutions)	Face	Grade 4	UNI EN ISO 12945-2
Maximum Weft Skew		3%	
Stretch and Recovery at 30N Load	Extension	N/A	UNI EN 14704-1
	Residual	N/A	

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Colour Fastness-

		Grade	Change in Colour	Dark Colours					
				Cross Staining					
				Acetate	Cotton	Polyamide	Polyester	Acrylic	Wool
Dry Cleaning	UNI EN ISO 105-D01		4	4	4	4	4	4	4
Dry Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4	4
Wet Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4	4
Acid Pers	UNI EN ISO 105-E04		4	4	4	4	4	4	4
Alkaline Pers	UNI EN ISO 105-E04		4	4	4	4	4	4	4
Water	UNI EN ISO 105-E01		4	4	4	4	4	4	4
Washing	UNI EN ISO 105-C06		4	4	4	4	4	4	4
Dry Rubbing	UNI EN ISO 105-X12				4				
Wet Rubbing	UNI EN ISO 105-X12				3				
Light	UNI EN ISO 105-B02	4							

		Grade	Change in Colour	Light Colours					
				Cross Staining					
				Acetate	Cotton	Polyamide	Polyester	Acrylic	Wool
Dry Cleaning	UNI EN ISO 105-D01		4	4	4	4	4	4	4
Dry Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4	4
Wet Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4	4
Acid Pers	UNI EN ISO 105-E04		4	4	4	4	4	4	4
Alkaline Pers	UNI EN ISO 105-E04		4	4	4	4	4	4	4
Water	UNI EN ISO 105-E01		4	4	4	4	4	4	4
Washing	UNI EN ISO 105-C06		4	4	4	4	4	4	4
Dry Rubbing	UNI EN ISO 105-X12				4				
Wet Rubbing	UNI EN ISO 105-X12				4				
Light	UNI EN ISO 105-B02	3							

Chemical, Ecotoxicological & Flammability -

pH-value Water Extract	4.0 - 7.5	UNI EN ISO 3071
Flammability	Class 1	16 CFR 1610
Formaldehyde	< 16 mg/kg	UNI EN ISO 14184/1
Cancer-causing Aromatic Amines	< 20 ppm	DIN EN ISO 14362/1
REACH Compliant	Yes	Reg.(UE) 1907/2006

Standard(s)-

Okeo-Tex Standard 100 Certified	11-52140 Shirley

BV CPS TEST LABORATUVARLARI LTD. STI.
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Test TS EN ISO/IEC 17025 AB-0505-T

AB-0505-T

72253280276

11-25

TEST REPORT

LAB LOCATION: TURKEY
SERVICE TYPE: Regular
LAB NUMBER: (7225)328-0276
THE DATE OF RECEIPT OF TEST ITEM: November 24, 2025
START DATE FOR TESTING: November 24, 2025
DATE END OF TEST: November 28, 2025
NUMBER OF WORKING DAYS: 5.0

CUSTOMER NAME / ADDRESS CONTACT NAME	:	M CHAPMAN&SONS LTD Address: Chapman Works, Manchester Road, Dunnockshaw,Burnley, BB121 5PW.) (Attn: Paige Newham-Foulds)
BUYER	:	/
SUPPLIER REFERENCE	:	Style Number: / PO Number: 13423 Unique Product Code: /
SAMPLE DESCRIPTION	:	Woven Fabric Sample (Cedar) (Claimed Fiber Content: /) (Claimed Fabric Weight: /)
COLOUR	:	Black 2682
SUBMITTED CARE INSTRUCTION	:	
REASON FOR REVISION	:	/

Date Out
(28/11/2025)

Ali Payalan
Senior Client Team Lead

Hasan Altingul
Deputy General Manager Operations
(28/11/2025)

C/N/ BT/AP

SUMMARY OF TEST RESULTS

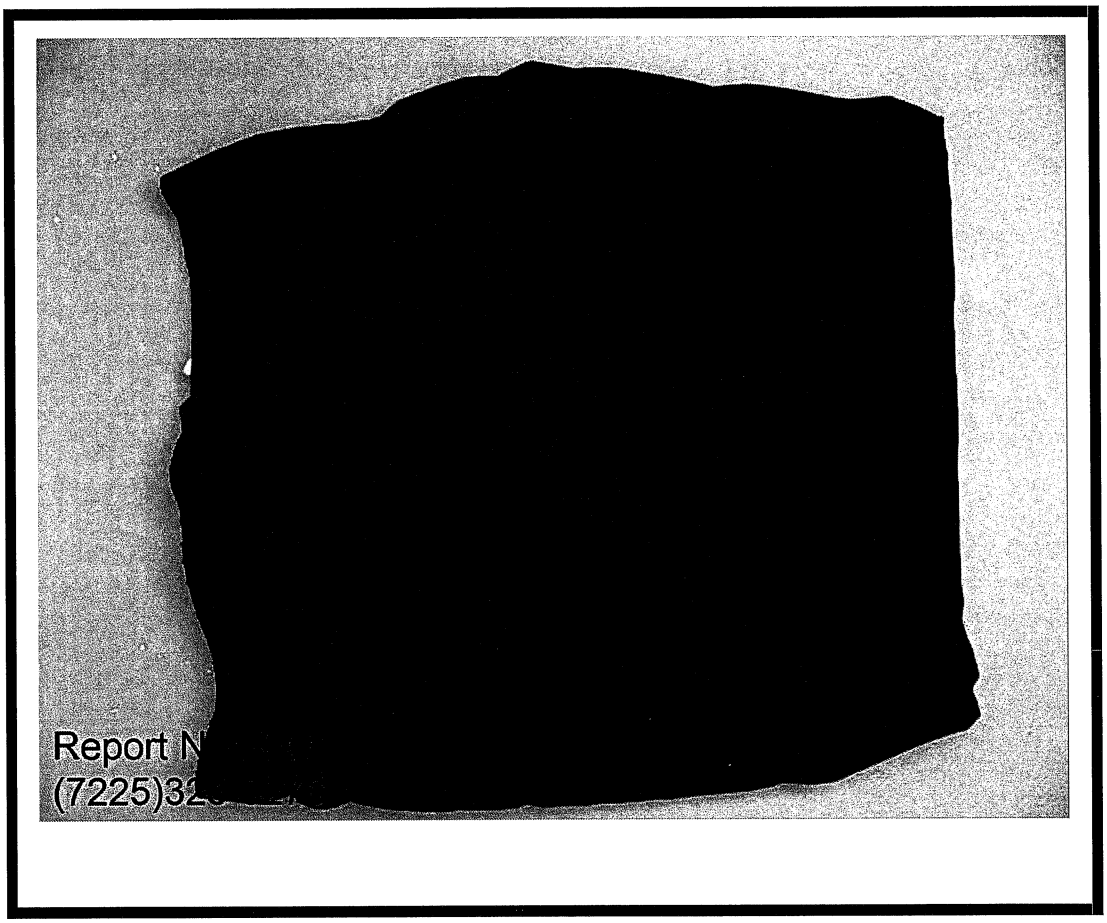
TEST PERFORMED	PASS	FAIL	DATA
Dimensional Stability To Washing *			X
Dimensional Stability to Wira Steam			X
Dimensional Stability Dry Cleaning*			X
Colorfastness To Domestic And Commercial Laundering*			X
Colourfastness To Water*			X
Colourfastness To Perspiration*			X
Colourfastness To Drycleaning *			X
Colourfastness To Hot Pressing			X
Colourfastness To Light*			X
Colorfastness To Rubbing*			X
Tear Properties Of Fabrics: Single Tear Method *			X
Tensile Properties Of Fabrics: Grab Method *			X
Slippage Resistance Of Yarns At Seam: Fixed Seam Opening Method*			X
Abrasion Resistance Of Fabrics By Martindale Method: Specimen Breakdown*	X		
Fabric Propensity To Surface Fuzzing And To Pilling: Modified Martindale Method*			X
Flammability Of Clothing Textiles*	X		
Ph Value*			X
Formaldehyde*			X
Azo-Amines And Arylamine Salts*			X
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers*			X
Chlorophenols*			X
Quinoline*			X
Organotin Compounds*			X
Flame Retardants*			X
Per- And Polyfluoroalkyl Substances (PFAS)*			X
Dimethylfumarate (DMFu)*			X
Polycyclic Aromatic Hydrocarbons (PAHs)*			X
Extractable Heavy Metals*			X

*** TURKAK Accredited- See Appendix A**

REMARKS		
1	:	P: Pass, F: Fail, DATA: No Evaluation, N/A: Not Applicable
2	:	*The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.
3	:	The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

COMPONENT LIST / LIST OF MATERIALS		
COMPONENT	DESCRIPTION	COMPOSITION
I001	Black Woven Base	/

ORIGINAL
(SAMPLE IMAGE)



TEST RESULTS	REQUIREMENTS

DIMENSIONAL STABILITY TO WASHING
(BS EN ISO 6330, Wascator 3M@30C°, Flat Dry)

	Original (mm)	After Wash (mm)	Change (%)	/
LENGTH	350	345	-1.4	
WIDTH	350	345	-1.4	

(+) Extension (-) Shrinkage

DIMENSIONAL STABILITY TO DRY CLEANING
(ISO 3175-1) 1 Cycle

	Original (mm)	After 1 Dry Clean (mm)	Dimensional Change (%)	
Length	350	349	-0.3	
Width	350	349	-0.3	/

(+) Extension (-) Shrinkage

DIMENSIONAL STABILITY TO WIRA STEAM
(BS 4323)

	Original (mm)	After Steam (mm)	Dimensional Change (%)	
Length	250	248	-0.8	/
Width	250	248	-0.8	

(+) Extension (-) Shrinkage

TEST RESULTS		REQUIREMENTS
COLOURFASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING (ISO 105-C06:2010, TEST NO: A2S MECHANICAL WASH AT 30°C (MOD) IN 0.4% ECE DETERGENT AND 0.1% SODIUM PERBORATE SOLUTION WITH 10 STEEL BALLS), MULTIFIBRE DW)		
Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	
COLOURFASTNESS TO WATER (ISO 105-E01:2013 MULTIFIBRE DW)		
Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	

COLOURFASTNESS TO PERSPIRATION (ISO 105-E04:2013, MULTIFIBRE DW)			
	Acid	Alkaline	
Colour Change	4-5	4-5	/
Self-Staining	/	/	/
Colour Staining on Acetate	4-5	4-5	/
Colour Staining on Cotton	4-5	4	
Colour Staining on Polyamide	4-5	4-5	
Colour Staining on Polyester	4-5	4-5	
Colour Staining on Acrylic	4-5	4-5	
Colour Staining on Wool	4-5	4-5	

TEST RESULTS	REQUIREMENTS

COLOURFASTNESS TO DRYCLEANING (ISO 105-D01: 2010, MULTIFIBRE DW)		
Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	

COLOURFASTNESS TO HOT PRESSING (ISO 105-X11:1994)				
WARM IRON				
	DRY	DAMP	WET	
Colour Change – After Testing	4-5	4-5	4-5	/
Colour Staining - After Testing	4-5	4-5	4-5	/
Colour Change – After Conditioning For 4 Hrs	4-5	4-5	4-5	/

COLOURFASTNESS TO LIGHT (ISO 105-B02:2014, METHOD 3, XENON-ARC LAMP, MODIFICATION: EXPOSURE UP TO CONTRAST OF GREY SCALE 4)		
RATING (NUMERICAL MEAN)	4	/

COLOURFASTNESS TO RUBBING (ISO 105-X12:2016 / BS EN ISO 105-X12:2016 / DIN EN ISO 105-X12:2016)			
	LENGTHWISE	WIDTHWISE	
Dry	4-5	4-5	/
Wet	3	3	/

GRADE 5 NEGLIGIBLE OR NO CHANGE	GRADE 5 NEGLIGIBLE OR NO STAINING
GRADE 4 SLIGHTLY CHANGED	GRADE 4 SLIGHTLY STAINED
GRADE 3 NOTICEABLY CHANGED	GRADE 3 NOTICEABLY STAINED
GRADE 2 CONSIDERABLY CHANGED	GRADE 2 CONSIDERABLY STAINED
GRADE 1 MUCH CHANGED	GRADE 1 HEAVILY STAINED

TEST RESULTS	REQUIREMENTS

FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING: MODIFIED MARTINDALE METHOD
(BS EN ISO 12945-2, TESTED AS RECEIVED)

PILLING	**1**	**2**	**3**	**AVERAGE**	
Grade at 2000 Rubs	4-5	4-5	4-5	4-5	/
FUZZING	**1**	**2**	**3**	**AVERAGE**	
Grade at 2000 Rubs	4-5	4-5	4-5	4-5	/

*REMARK

PILLING GRADING SCHEME

GRADE 5	NO CHANGE
GRADE 4	PARTIALLY FORMED PILLS
GRADE 3	MODERATE PILLING
GRADE 2	DISTINCT PILLING
GRADE 1	SEVERE PILLING

ABRASION RESISTANCE OF FABRICS BY MARTINDALE METHOD: SPECIMEN BREAKDOWN
(BS EN ISO 12947-2 / Pressure Used 795g- 12 kPa)

	Sample 1	**Sample 2**	**Sample 3**	**Lowest Result**	
NO. OF RUBS	>30000 Revs No Breakdown	>30000 Revs No Breakdown	>30000 Revs No Breakdown	>30000 Revs No Breakdown	>30000 Revs No Breakdown
SHADE CHANGE @5000 Rubs	3-4				/

TEAR PROPERTIES OF FABRICS: SINGLE TEAR METHOD
(ISO 13937-2:2000)

ACROSS WARP (N)	7.5	/
ACROSS WEFT (N)	7.5	/

*REMARK

TENSILE PROPERTIES OF FABRICS: GRAB METHOD
(ISO 13934-2:1999)

WARP (N)	319.8	/
WEFT (N)	198.2	/

*REMARK

TEST RESULTS				REQUIREMENTS
SLIPPAGE RESISTANCE OF YARNS AT SEAM: FIXED SEAM OPENING METHOD (ISO 13936-1:2004, 6 MM SEAM OPENING)				
WARP WAY SEAM – SEAM SLIPPAGE (KG/ N)	NSS			/
WARP WAY SEAM – SEAM STRENGTH (KG/ N)	>120			
MODE OF RUPTURE	NSS			
WEFT WAY SEAM – SEAM SLIPPAGE (KG/ N)	>120			
WEFT WAY SEAM – SEAM STRENGTH (KG/ N)	NSS			
MODE OF RUPTURE	NSS			
* REMARKS				
(A) FABRIC TEAR (B) FABRIC TEAR AT THE JAWS (C) FABRIC TEAR AT THE SEAM (D) BREAKAGE OF SEWING THREADS (E) THREAD PULL–OUT (F) ANY COMBINATION OF THESE				

TEST RESULTS	REQUIREMENTS

Flammability of Clothing Textiles (16 CFR 1610)

Sample Description: Woven Fabric Sample

Fiber Content: 100% Polyester

Fabric Weight: /

Fabric Surface: **Plain Fiber Surface**

Direction to be Tested: **Face, Widthwise**
(From Preliminary Test)

As Received

Time of Flame Spread (S)		Burn Code	
1	/	1	SFPOI
2	/	2	SFPOI
3	/	3	SFPOI
4	/	4	SFPOI
5	/	5	SFPOI

Avg. ____Seconds for# ____Specimens

6	/	6	
7	/	7	
8	/	8	
9	/	9	
10	/	10	

Avg. ____Seconds for# ____Specimens

After Refurbishing

Time of Flame Spread (S)		Burn Code	
P1	/	P1	SFPOI
P2	/	P2	SFPOI
P3	/	P3	SFPOI
P4	/	P4	SFPOI
P5	/	P5	SFPOI

Avg. ____Seconds for# ____Specimens

P6	/	P6	/
P7	/	P7	/
P8	/	P8	/
P9	/	P9	/
P10	/	P10	/

Avg. ____Seconds for# ____Specimens

CLASS 1 / PASS

DNI	Did Not Ignite.
IBE	Ignited, But Extinguished.
SF uc	Surface Flash, Under The Stop Thread, But DOES NOT break the stop thread.
SF pw	Surface Flash, Part Way. No time shown because the surface flash did not reach the stop thread.
SF poi	Surface Flash, at the point of impingement only. (Equivalent to "Did Not Ignite" for plain surfaces.)
0.0 sec.	Actual burn time measured and recorded by the timing device.
0.0 SF only	Time in seconds, surface flash only. No damage to the base fabric.
0.0 SFBB	Time in seconds, Surface Flash Base Burn starting at places other than the point of impingement as a result of surface flash.
0.0 SFBB poi	Time in seconds, Surface Flash Base Burn starting at the point of impingement. This result does not qualify as a base burn under the current interpretation of part of 16 CFR part 1610.
0.0 SFBB poi*	Time in seconds, Surface Flash Base Burn possibly starting at the point of impingement. The asterisk (*) is accompanied by the following statement: "Unable to make absolute determination as to source of base burns." This statement is added to the result of any specimen if there is a question as to origin of the base burn.

COMMENTS: Pass Class 1, Normal Flammability of Commercial Standard 16 CFR 1610, Formerly 191-53 of United States Flammability Fabric Act.

A classification cannot be made due to the use of a modified procedure which was used to rack and support the specimens for testing. Therefore, results are reported for informational purposes only.

TEST RESULTS

PH VALUE

Test Method I : Textiles and Artificial Leather: SASO ISO 3071:2014

Test Method II : Leather: EN ISO 4045:2018

Maximum Limit:	/

-	**Unit**	**Result**
Test Item(s)	-	I001
Test Method	-	I
Parameter	-	-
pH Value of Extract Solution	-	-
Temp. of Aqueous Extract	deg. C	22.6
pH Value of Aqueous Extract	-	5.9
Conclusion	-	DATA

Note / Key :

deg. C = degree Celsius (°C) Temp. = Temperature

Remark :

Formaldehyde

Test Method I : All materials exceptLeather: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184-1:2011

Test Method II : Leather: EN ISO 17226-2:2019 with EN ISO 17226-1:2019 confirmation method in case of interferences. Alternatively, EN ISO 17226-1:2019 can be used on its own.

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
1001	/	ND	mg/kg	DATA

Note:

ND = Not detected ">" = More than
mg/kg = milligram per kilogram
Detection Limit (mg/kg): 5

TEST RESULTS

Azo-amines and Arylamine salts

Test Method I : EN ISO 14362-1:2017

Test Method II : ISO 17234-1:2015

Test Method III : EN ISO 14362-3:2017 (For textile)/ ISO 17234-2:2011 (For leather)/ CPSD-AN-00107-MTHD/26

Quantification analysis by GC-MS and confirmation by LC-DAD.

Maximum Limit:	/

Tested Item(s)	**Test Method**	**Result**			**Conclusion**
		Detected Analyte(s)	**Conc.**	**Unit**	
I001	I	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 5 each
Remark:

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

- The list of Azo-amines and Aryl Amine salts is summarized in table of Appendix.

TEST RESULTS

Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers

Test Method I : Textiles and Leather: EN ISO 21084:2019 Polymers and all other materials: 1 g sample/20 mL THF, sonication for 60 minutes at 70 degrees C, analysis according to EN ISO 21084:2019

Test Method II : All materials except Leather: EN ISO 18254-1:2016 with determination of APEO using LC/MS or LC/MS/MS

Test Method III : Leather: Sample prep and analysis using EN ISO 18218-1:2015 with quantification according to EN ISO 18254-1:2016

Test Method IV : GB/T 23322 mod.

Maximum Limit:	/

Tested Item(s)	**Result**				**Conclusion**
	Test Method	**Detected Analyte(s)**	**Conc.**	**Unit**	
I001	I	NP Others	49 ND	mg/kg	DATA

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
Detection Limit (mg/kg) - Each (NP & OP) 5; (NPEO & OPEO) 30

Remark:

- The list of Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers is summarized in table of Appendix.

TEST RESULTS

Chlorophenols

Test Method I : All materials: DIN 50009:2021
Test Method II : LFGB 64 B 82.02-8 / CEN/TS 14494 / DIN 53313

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.05 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Chlorophenols is summarized in table of Appendix.

Quinoline

Test Method I : All materials: DIN 54231:2022 / CPSD-AN-00048-MTHD
Test Method II : 54231:2022 - LC-MS /MS 64LFGB 82.02-10Mod.

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.05 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark: /

TEST RESULTS

Organotin Compounds

Test Method : All materials: CEN ISO/TS 16179:2012 or EN ISO 22744-1:2020 / DIN 38407-13 Mod ISO 17353
Quantification analysis by GC-MS

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.05

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Organotin Compounds is summarized in table of Appendix.

TEST RESULTS

Flame Retardants

Test Method I : EN ISO 17881-1/2: 2006
Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) or Liquid Chromatograph Mass Spectrometer (LC-MS)

Maximum Limit:	

Tested Item(s)	**Type**	**Result**			**Conclusion**
		Detected Analyte(s)	**Conc.**	**Unit**	
I001	I	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 5 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Flame Retardants is summarized in table of Appendix.

Per- and Polyfluoroalkyl substances (PFAS)

Test Method : EN 17681-1:2025/ CPSD-AN-00668-MTHD

Maximum Limit:	/

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I001	ND	mg/kg	DATA

Note:

ND = Not detected

">" = More than

Conc. = Concentration

Remark:

- The list of Per- and Polyfluoroalkyl substances (PFAS) is summarized in table of Appendix.

TEST RESULTS

Dimethylfumarate (DMFu)

Test Method : All materials: ISO 16186:2021 / ISO/TS 16186 and DIN EN 17130

Quantification analysis by GC-MS

Maximum Limit:	/

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I001	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.03

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

-

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : All materials: AFPS GS 2019

Maximum Limit:	**Type I**	**Baby – All listed PAHs:**
	Type II	**Others – All listed PAHs:**
		Quantification analysis by GC-MS

Tested Item(s)	**Type**	**Result**			**Conclusion**
		Detected Analyte(s)	**Conc.**	**Unit**	
I001	**II**	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.1 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Polycyclic Aromatic Hydrocarbons (PAHs) is summarized in table of Appendix.

TEST RESULTS

Extractable Heavy Metals

Test Method : All materials except Leather: DIN EN 16711-2:2016
Leather: DIN EN ISO 17072-1:2019
Quantification analysis by ICP-MS

Limit:	Element (mg/kg)								
	As	Cd	Se	Hg	Pb	Sb	Co	Ba	Cu
	-	-	-	-	-	-	-	-	-

Limit:	Element (mg/kg)					
	Cr	Ni	Sn	Mn	Zn	Cr VI
	-	-	-	-	-	-

-	Unit	-
Tested Item(s)	-	I001
Parameter	-	/
Antimony (Sb)	mg/kg	ND
Arsenic (As)	mg/kg	ND
Cadmium (Cd)	mg/kg	ND
Chromium (Cr)	mg/kg	ND
Chromium VI (Cr-VI)	mg/kg	ND
Cobalt (Co)	mg/kg	ND
Copper (Cu)	mg/kg	ND
Lead (Pb)	mg/kg	ND
Nickel (Ni)	mg/kg	ND
Mercury (Hg)	mg/kg	ND
Selenium (Se)	mg/kg	ND
Tin (Sn)	mg/kg	ND
Manganese (Mn)	mg/kg	1.0
Zinc (Zn)	mg/kg	ND
Barium (Ba)	mg/kg	ND
Conclusion	-	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
">" = Greater than
mg/kg = ppm = part(s) per million
% = percent
Conc. = Concentration
Detection Limit (mg/kg) - (Sb) 2, (As) 0.05, (Cd) 0.05, (Cr) 0.25, (Cr-VI) 0.5, (Co) 0.25, (Cu) 5, (Pb) 0.1, (Ni) 0.25, (Hg) 0.02, (Se) 5, (Sn) 0.25, (Mn) 0.1, (Zn) 5, (Ba) 2

Remark:

-

**Indicates does not meet the requirements

APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES		
TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Colourfastness to Domestic and Commercial Laundering	BS EN ISO 105 C06 EN ISO 105 C06 ISO 105 C06 TS EN ISO 105 C06	±0.5 Grade
Colourfastness to Water	BS EN ISO 105 E01 ISO 105 E01 TS EN ISO 105 E01	±0.5 Grade
Colourfastness to Light	BS EN ISO 105 B02 ISO 105 B02 EN ISO 105 B02 TS EN ISO 105 B02	±0.5 Grade
Colourfastness to Drycleaning	ISO 105 D01 BS EN ISO 105 D01 TS EN ISO 105 D01	±0.5 Grade
Colourfastness to Perspiration	ISO 105 E04 BS EN ISO 105 E04 TS EN ISO 105 E04	±0.5 Grade
Colourfastness to Rubbing	ISO 105 X12 BS EN ISO 105 X12 TS EN ISO 105 X12	±0.5 Grade
Appearance Assessment And Dimensional Stability For Fabrics And Garments	CPSD-SL-31068-MTHD	±0.5 Grade
Dimensional Stability To Washing	As a combination of 3 standards BS EN ISO 6330 BS EN ISO 5077 BS EN ISO 3759	± 5.0 %
Tear Properties Of Fabrics: Single Tear Method	BS EN ISO 13937-2 TS EN ISO 13937-2	±10.8%
Tensile Properties Of Fabrics: Grab Method	BS EN ISO 13934-2 EN ISO 13934-2 ISO 13934-2 TS EN ISO 13934-2	±17.2%
Slippage Resistance Of Yarns At Seam: Fixed Seam Opening Method	BS EN ISO 13936-1 EN ISO 13936-1 ISO 13936-1 TS EN ISO 13936-1	±4.9%
Abrasion Resistance Of Fabrics By Martindale Method: Specimen Breakdown	BS EN ISO 12947-2 EN ISO 12947-2,AC ISO 12947-2, Cor1 TS EN ISO 12947-2, AC	±4.5%
Fabric Propensity To Surface Pilling Fuzzing or Matting: Modified Martindale Method	BS EN ISO 12945-2 EN ISO 12945-2 ISO 12945-2 TS EN ISO 12945-2	±0.5 Grade
pH Value	ISO 4045	±2.08%
Formaldehyde Content	BS EN ISO 14184-1	±4.85%
Azo-amines and Arylamine salts	EN ISO 14362-1	± % 21,04
Dyes (Forbidden and Disperse)	DIN 54231	Allergenic dyes ±13.65% Carcinogenic dyes ±18.10%
Chlorophenols	§ 64 LFGB B 82.02-08 or DIN EN ISO 17070 CPSD-AN-00094-MTHD	±22.08%
Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs) including all isomers	EN ISO 18254	±11.31%
Organotin Compounds	ISO 16179, ISO 22744-1	±26.00%
Polycyclic Aromatic Hydrocarbons (PAHs)	CPSD-AN-00090-MTHD	±19.44%
Flame Retardants	EU REACH, ROHS & ISO 17881-1 CPSD-AN-00051-MTHD	±18.19%
Dimethylfumarate (DMFu)	CPSD-AN-00647-MTHD	±16.25%

APPENDIX

List of Azo-amines and Arylamine salts:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	4-Aminodiphenyl	92-67-1	15	4,4'-Methylene-bis-(2-chloraniline)	101-14-4
2	Benzidine	92-87-5	16	4,4'-Oxydianiline	101-80-4
3	4-Chloro-o-toluidine	95-69-2	17	4,4'-Thiodianiline	139-65-1
4	2-Naphthylamine	91-59-8	18	o-Toluidine	95-53-4
5	o-Aminoazotoluene	97-56-3	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8	20	2,4,5-Trimethylaniline	137-17-7
7	4-Chloroaniline (p-Chloroaniline)	106-47-8	21	o-Anisidine	90-04-0
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3
9	4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline)	101-77-9	23	2,4-Xylidine	95-68-1
10	3,3'-Dichlorobenzidine	91-94-1	24	2,6-Xylidine	87-62-7
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	25	4-chloro-o-toluidinium chloride	3165-93-3
12	3,3'-Dimethylbenzidine (4,4'-Bi-o-tolidine)	119-93-7	26	2-Naphthylammoniumacetate	553-00-4
13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl-4,4'-diaminodiphenylmethane)	838-88-0	27	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7
14	p-Cresidine	120-71-8	28	2,4,5-trimethylaniline hydrochloride	21436-97-5

List of Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Nonylphenol (NP)	104-40-5	3	Nonylphenol ethoxylated (NPEO)	68412-54-4
2	Octylphenol (OP)	140-66-9	4	Octylphenol ethoxylated (OPEO)	9002-93-1

List of Chlorophenols:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Pentachlorophenol (PCP)	87-86-5	2	Tetrachlorophenol (TeCP): 2,3,5,6- Tetrachlorophenol 2,3,4,6- Tetrachlorophenol 2,3,4,5- Tetrachlorophenol	 935-95-5 58-90-2 4901-51-3

Organotin Compounds:			
No.	**Name**	**No.**	**Name**
1	Tributyltin (TBT)	4	Triphenyltin (TPhT)
2	Dibutyltin (DBT)	5	Dioctyltin (DOT)
3	Monobutyltin (DBT)	-	-

List of Flame Retardants:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Polybromobiphenyles (PBBs)	59536-65-1	4	Polybromodiphenyl ethers (PBDEs)	Various
2	Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5	Hexabromocyclododecane (HBCDD)	Various
3	Tris-(aziridinyl)-phosphineoxide (Tris (1-aziridinyl) phosphine oxide) or (TEPA)	545-55-1	-	-	-

List of Polycyclic Aromatic Hydrocarbons (PAHs):					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Naphthalene	91-20-3	10	Chrysene	218-01-9
2	Acenaphthylene	208-96-8	11	Benzo (a) pyrene	50-32-8
3	Acenaphthene	83-32-9	12	Indeno (1,2,3-cd) pyrene	193-39-5
4	Fluorene	86-73-7	13	Dibenzo (a,h) anthracene	53-70-3
5	Phenanthrene	85-01-8	14	Benzo (g,h,i) perylene	191-24-2
6	Antracene	120-12-7	15	Benzo (b) fluoranthene	205-99-2
7	Fluoranthene	206-44-0	16	Benzo (k) fluoranthene	207-08-9
8	Pyrene	129-00-0	17	Benzo (j) fluoranthene	205-82-3
9	Benzo (a) anthracene	56-55-3	18	Benzo (e) pyrene	192-97-2

Perfluorinated Compounds (PFC) By Lcmsms					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Perfluorobutyric acid	375-22-4	31	Perfluoro-1-heptanesulfonic acid	375-92-8
2	Perfluoropentanoic acid	2706-90-3	32	Perfluoro-1-heptanesulfonic acid potassium salt	60270-55-5
3	Perfluoro-n-hexanoic acid	307-24-4	33	Perfluorooctanesulfonic acid	1763-23-1
4	Perfluoro-n-heptanoic acid	21615-47-4	34	Perfluorooctanesulfonic acid potassium salt	2795-39-3
5	7H-Perfluoroheptanoic acid	375-85-9	35	Ammonium perfluorooctanesulfonate	29081-56-9
6	Perfluoro-n-octanoic acid	335-67-1	36	Perfluorooctanesulfonic acid lithium salt	29457-72-5
7	Perfluorooctanoyl fluoride	335-66-0	37	Perfluoro-1-octanesulfonyl fluoride	307-35-7
8	Methyl perfluorooctanoate	376-27-2	38	Perfluorooctane sulfonate diethanolamine salt	70225-14-8
9	Ethyl perfluorooctanonate	3108-24-5	39	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate NDecyl-N,N-dimethyl-1-decanaminium salt	251099-16-8
10	Sodium perfluorooctanoate	335-95-5	40	Perfluorodecane sulfonic acid	335-77-3
11	Potassium perfluorooctanoate	2395-00-8	41	Perfluorodecane sulfonic acid sodium salt	335-77-3
12	Silver perfluorooctanoate	335-93-3	42	Perfluorodecane sulfonic acid sodium salt	2806-15-7
13	Ammonium pentadecafluorootanoate	3825-26-1	43	Perfluorodecane sulfonic acid potassium salt	2806-16-8
14	Perfluoro-n-nonanoic acid	375-95-1	44	1H,1H,2H,2H-perfluorohexane sulfonate acid	757124-72-4
15	Ammonium perfluorononanoate	4149-60-4	45	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	-
16	Sodium perfluorononanoate	21049-39-8	46	1H,1H,2H,2HPerfluorooctanesulphonic acid	27619-97-2
17	Perfluoro-n-decanoic acid	335-76-2	47	1H,1H,2H,2HPerfluorodencane sulfonate acid	39108-34-4
18	2H,2H-Perfluorodecanoic acid	27854-31-5	48	1H,1H,2H,2HPerfluorodencane sulfonate acid, Sodium salt	-
19	Perfluoro-3,7-dimethyloctanoic acid	172155-07-6	49	1H,1H,2H,2H-Perfluorododecane sulfonic acid	120226-60-0
20	Perfluoroundecanoic acid	2058-94-8	50	Perfluorooctane sulfonamide	754-91-6
21	2H,2H,3H,3H-Perfluoroundecanoic acid	34598-33-9	51	N-Methylperfluoro-1-octanesulfonamide	31506-32-8
22	Perfluorododecanoic acid	307-55-1	52	N-Ethylperfluoro-1-octanesulfonamide	4151-50-2
23	Perfluorotridecanoic acid	72629-94-8	53	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7
24	Perfluorotetradecanoic acid	376-06-7	54	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2
25	Perfluorobutanesulfonic acid	375-73-5	55	Perfluorooctane sulfonamidoacetic acid	17527-29-6
26	Perfluorobutanesulfonic acid potassium salt	29420-49-3	56	2-(N-Methylperfluorooctane sulfoamido) acetic acid	2355-31-9
27	Perfluorobutanesulfonic acid hydrate	59933-66-3	57	N-Ethylperfluorooctane sulfonamidoacetate	2991-50-6
28	Perfluorohexanesulfonic acid	355-46-4	58	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanic acid	13252-13-6
29	Perfluorohexanesulfonic acid potassium salt	3871-99-6			
30	Perfluorohexanesulfonic acid sodium salt	82382-12-15			
	CAS-No. = Chemical Abstracts Service registry number				

-END OF REPORT-

BV CPS TEST LABORATUVARLARI LTD. STI.
BUREAU VERITAS CONSUMER PRODUCTS SERVICES
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website: www.bureauveritas.com/cps

Test
TS EN ISO/IEC 17025
AB-0505-T

AB-0505-T
72253280282
11-25

TEST REPORT

LAB LOCATION: TURKEY
SERVICE TYPE: Regular
LAB NUMBER: (7225)328-0282
THE DATE OF RECEIPT OF TEST ITEM: November 24, 2025
START DATE FOR TESTING: November 24, 2025
DATE END OF TEST: November 28, 2025
NUMBER OF WORKING DAYS: 5.0

CUSTOMER NAME / ADDRESS CONTACT NAME	:	M CHAPMAN&SONS LTD Address: Chapman Works, Manchester Road, Dunnockshaw,Burnley, BB121 5PW.) (Attn: Paige Newham-Foulds)
BUYER	:	/
SUPPLIER REFERENCE	:	Style Number: / PO Number: 13424 Unique Product Code: /
SAMPLE DESCRIPTION	:	Woven Fabric Sample (Cedar) (Claimed Fiber Content: 98% Pima Cotton 2% Elastane) (Claimed Fabric Weight: /)
COLOUR	:	Stone 2669
SUBMITTED CARE INSTRUCTION	:	
REASON FOR REVISION	:	/

BUREAU VERITAS CONSUMER PRODUCTS SERVICES DIVISION

Date Out
(28/11/2025)

Ali Payalan
Senior Client Team Lead

Hasan Altingul
Deputy General Manager Operations
(28/11/2025)

C/N/ BT/AP

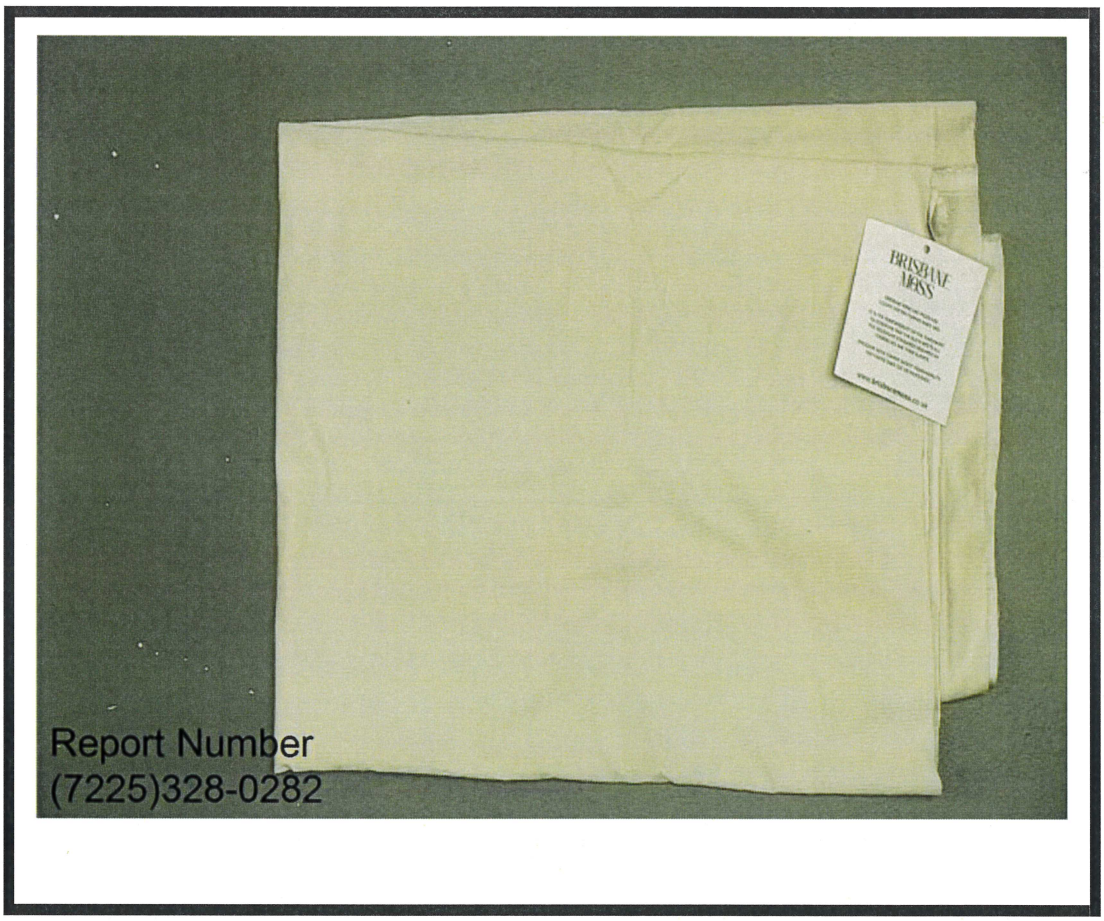
SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA
Colorfastness To Domestic And Commercial Laundering*			X
Colourfastness To Water*			X
Colourfastness To Perspiration*			X
Colourfastness To Drycleaning *			X
Colourfastness To Hot Pressing			X
Colourfastness To Light*			X
Colorfastness To Rubbing*			X
Flammability Of Clothing Textiles*	X		
Ph Value*			X
Formaldehyde*			X
Azo-Amines And Arylamine Salts*			X
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers*			X
Chlorophenols*			X
Quinoline*			X
Organotin Compounds*			X
Flame Retardants*			X
Per- And Polyfluoroalkyl Substances (PFAS)*			X
Dimethylfumarate (DMFu)*			X
Polycyclic Aromatic Hydrocarbons (PAHs)*			X
Extractable Heavy Metals*			X
*** TURKAK Accredited- See Appendix A**			

REMARKS		
1	:	P: Pass, F: Fail, DATA: No Evaluation, N/A: Not Applicable
2	:	*The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.
3	:	The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

COMPONENT LIST / LIST OF MATERIALS		
COMPONENT	DESCRIPTION	COMPOSITION
I001	Stone Woven Base	/

ORIGINAL
(SAMPLE IMAGE)



TEST RESULTS		REQUIREMENTS
COLOURFASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING (ISO 105-C06:2010, TEST NO: A2S MECHANICAL WASH AT 30°C (MOD) IN 0.4% ECE DETERGENT AND 0.1% SODIUM PERBORATE SOLUTION WITH 10 STEEL BALLS), MULTIFIBRE DW)		
Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	
COLOURFASTNESS TO WATER (ISO 105-E01:2013 MULTIFIBRE DW)		
Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	

TEST RESULTS	REQUIREMENTS

COLOURFASTNESS TO PERSPIRATION
(ISO 105-E04:2013, MULTIFIBRE DW)

	Acid	Alkaline	
Colour Change	4-5	4-5	/
Self-Staining	/	/	/
Colour Staining on Acetate	4-5	4-5	/
Colour Staining on Cotton	4-5	4-5	
Colour Staining on Polyamide	4-5	4-5	
Colour Staining on Polyester	4-5	4-5	
Colour Staining on Acrylic	4-5	4-5	
Colour Staining on Wool	4-5	4-5	

COLOURFASTNESS TO DRYCLEANING
(ISO 105-D01: 2010, MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	

COLOURFASTNESS TO HOT PRESSING
(ISO 105-X11:1994)
WARM IRON

	DRY	DAMP	WET	
Colour Change – After Testing	4-5	4-5	4-5	/
Colour Staining - After Testing	4-5	4-5	4-5	/
Colour Change – After Conditioning For 4 Hrs	4-5	4-5	4-5	/

TEST RESULTS	REQUIREMENTS

COLOURFASTNESS TO LIGHT (ISO 105-B02:2014, METHOD 3, XENON-ARC LAMP, MODIFICATION: EXPOSURE UP TO CONTRAST OF GREY SCALE 4)		
RATING (NUMERICAL MEAN)	3	/

COLOURFASTNESS TO RUBBING (ISO 105-X12:2016 / BS EN ISO 105-X12:2016 / DIN EN ISO 105-X12:2016)			
	LENGTHWISE	WIDTHWISE	
Dry	4-5	4-5	/
Wet	4-5	4-5	/

GRADE 5 NEGLIGIBLE OR NO CHANGE	GRADE 5 NEGLIGIBLE OR NO STAINING
GRADE 4 SLIGHTLY CHANGED	GRADE 4 SLIGHTLY STAINED
GRADE 3 NOTICEABLY CHANGED	GRADE 3 NOTICEABLY STAINED
GRADE 2 CONSIDERABLY CHANGED	GRADE 2 CONSIDERABLY STAINED
GRADE 1 MUCH CHANGED	GRADE 1 HEAVILY STAINED

TEST RESULTS	REQUIREMENTS

FLAMMABILITY OF CLOTHING TEXTILES (16 CFR 1610)

SAMPLE DESCRIPTION: WOVEN FABRIC

FIBER CONTENT: /

FABRIC WEIGHT: /

FABRIC SURFACE: **RAISED FIBER SURFACE**

DIRECTION TO BE TESTED: **FACE / LENGTHWISE**
(FROM PRELIMINARY TEST)

AS RECEIVED

TIME OF FLAME SPREAD (S)		BURN CODE	
1	/	1	SFPOI
2	/	2	SFPOI
3	/	3	SFPOI
4	/	4	SFPOI
5	/	5	SFPOI

AVG. ____SECONDS FOR# ____SPECIMENS

6	/	6	/
7	/	7	/
8	/	8	/
9	/	9	/
10	/	10	/

AVG. ____SECONDS FOR# ____SPECIMENS

AFTER REFURBISHING

TIME OF FLAME SPREAD (S)		BURN CODE	
P1	/	P1	SFPOI
P2	/	P2	SFPOI
P3	/	P3	SFPOI
P4	/	P4	SFPOI
P5	/	P5	SFPOI

AVG. ____SECONDS FOR# ____SPECIMENS

P6	/	P6	/
P7	/	P7	/
P8	/	P8	/
P9	/	P9	/
P10	/	P10	/

AVG. ____SECONDS FOR# ____SPECIMENS

DNI DID NOT IGNITE.

COMMENTS: PASS CLASS 1, NORMAL FLAMMABILITY OF COMMERCIAL STANDARD 16 CFR 1610, FORMERLY 191-53 OF UNITED STATES FLAMMABILITY FABRIC ACT.

REMARK: DUE TO THE OVERALL SIZE OF THE PRINT FULL TESTING COULD NOT BE PERFORMED ON THE PRINT ALONE.DATA INCLUDES COMPOSITE TEST RESULTS OF THE BASE FABRIC AND PRINT.

BURNING CODE:

IBE	IGNITE BUT EXTINGUISHED
DNI	DID NOT IGNITE
BB	BASE BURN
0.0 sec.	Actual time of burn from ignition until the flame severs the cord directly above the specimen
SF uc	SURFACE FLASH, UNDER THE CORD, BUT DOES NOT THE CORD.
SF pw	SURFACE FLASH, PART WAY. NO TIME SHOWN BECAUSE THE SURFACE FLASH, DID NOT REACH THE CORD.
SF poi	SURFACE FLASH, AT POINT OF IMPINGEMENT ONLY
0.0 SF only	Time in second, surface flash only. No damage to the base fabric.
0.0 SFBB	TIME IN SECONDS, SURFACE FLASH BASE BURN-BASE STARTS BURNING AT POINTS OTHER THAN THE POINT OF IMPINGEMENT.
0.0 SFBB poi	TIME IN SECONDS, SURFACE FLASH, BASE BURN STARTING AT THE POINT OF IMPINGEMENT.

TEST RESULTS

PH VALUE

Test Method I : Textiles and Artificial Leather: SASO ISO 3071:2014

Test Method II : Leather: EN ISO 4045:2018

Maximum Limit:	/

-	**Unit**	**Result**
Test Item(s)	-	I001
Test Method	-	I
Parameter	-	-
pH Value of Extract Solution	-	-
Temp. of Aqueous Extract	deg. C	22.6
pH Value of Aqueous Extract	-	5.6
Conclusion	-	DATA

Note / Key :

deg. C = degree Celsius (°C) Temp. = Temperature

Remark :

Formaldehyde

Test Method I : All materials exceptLeather: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184-1:2011

Test Method II : Leather: EN ISO 17226-2:2019 with EN ISO 17226-1:2019 confirmation method in case of interferences. Alternatively, EN ISO 17226-1:2019 can be used on its own.

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
1001	/	ND	mg/kg	DATA

Note:

ND = Not detected ">" = More than
mg/kg = milligram per kilogram
Detection Limit (mg/kg): 5

TEST RESULTS

Azo-amines and Arylamine salts

Test Method I : EN ISO 14362-1:2017

Test Method II : ISO 17234-1:2015

Test Method III : EN ISO 14362-3:2017 (For textile)/ ISO 17234-2:2011 (For leather)/ CPSD-AN-00107-MTHD/26

Quantification analysis by GC-MS and confirmation by LC-DAD.

Maximum Limit:	/

Tested Item(s)	**Test Method**	**Result**			**Conclusion**
		Detected Analyte(s)	**Conc.**	**Unit**	
I001	I	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 5 each
Remark:

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

- The list of Azo-amines and Aryl Amine salts is summarized in table of Appendix.

TEST RESULTS

Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers

Test Method I : Textiles and Leather: EN ISO 21084:2019 Polymers and all other materials: 1 g sample/20 mL THF, sonication for 60 minutes at 70 degrees C, analysis according to EN ISO 21084:2019

Test Method II : All materials except Leather: EN ISO 18254-1:2016 with determination of APEO using LC/MS or LC/MS/MS

Test Method III : Leather: Sample prep and analysis using EN ISO 18218-1:2015 with quantification according to EN ISO 18254-1:2016

Test Method IV : GB/T 23322 mod.

Maximum Limit:	/

Tested Item(s)	**Result**				**Conclusion**
	Test Method	**Detected Analyte(s)**	**Conc.**	**Unit**	
I001	I	/	ND	mg/kg	DATA

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
Detection Limit (mg/kg) - Each (NP & OP) 5; (NPEO & OPEO) 30

Remark:

- The list of Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers is summarized in table of Appendix.

TEST RESULTS

Chlorophenols

Test Method I : All materials: DIN 50009:2021
Test Method II : LFGB 64 B 82.02-8 / CEN/TS 14494 / DIN 53313

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.05 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Chlorophenols is summarized in table of Appendix.

Quinoline

Test Method I : All materials: DIN 54231:2022 / CPSD-AN-00048-MTHD
Test Method II : 54231:2022 - LC-MS /MS 64LFGB 82.02-10Mod.

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.05 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark: /

TEST RESULTS

Organotin Compounds

Test Method : All materials: CEN ISO/TS 16179:2012 or EN ISO 22744-1:2020 / DIN 38407-13 Mod ISO 17353
Quantification analysis by GC-MS

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.05

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Organotin Compounds is summarized in table of Appendix.

TEST RESULTS

Flame Retardants

Test Method I : EN ISO 17881-1/2: 2006
Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) or Liquid Chromatograph Mass Spectrometer (LC-MS)

Maximum Limit:	

Tested Item(s)	**Type**	**Result**			**Conclusion**
		Detected Analyte(s)	**Conc.**	**Unit**	
I001	I	/	ND	mg/kg	DATA

<

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 5 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Flame Retardants is summarized in table of Appendix.

Per- and Polyfluoroalkyl substances (PFAS)

Test Method : EN 17681-1:2025/ CPSD-AN-00668-MTHD

Maximum Limit:	/

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I001	ND	mg/kg	DATA

Note:

ND = Not detected

">" = More than

Conc. = Concentration

Remark:

- The list of Per- and Polyfluoroalkyl substances (PFAS) is summarized in table of Appendix.

TEST RESULTS

Dimethylfumarate (DMFu)

Test Method : All materials: ISO 16186:2021 / ISO/TS 16186 and DIN EN 17130

Quantification analysis by GC-MS

Maximum Limit:	/

Tested Item(s)	**Result**	**Unit**	**Conclusion**
I001	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.03

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

-

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : All materials: AFPS GS 2019

Maximum Limit:	**Type I**	**Baby – All listed PAHs:**
	Type II	**Others – All listed PAHs:**
		Quantification analysis by GC-MS

Tested Item(s)	**Type**	**Result**			**Conclusion**
		Detected Analyte(s)	**Conc.**	**Unit**	
I001	**II**	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.1 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Polycyclic Aromatic Hydrocarbons (PAHs) is summarized in table of Appendix.

TEST RESULTS

Extractable Heavy Metals

Test Method : All materials except Leather: DIN EN 16711-2:2016
Leather: DIN EN ISO 17072-1:2019
Quantification analysis by ICP-MS

Limit:	Element (mg/kg)								
	As	Cd	Se	Hg	Pb	Sb	Co	Ba	Cu
	-	-	-	-	-	-	-	-	-

Limit:	Element (mg/kg)					
	Cr	Ni	Sn	Mn	Zn	Cr VI
	-	-	-	-	-	-

-	Unit	-
Tested Item(s)	-	I001
Parameter	-	/
Antimony (Sb)	mg/kg	ND
Arsenic (As)	mg/kg	ND
Cadmium (Cd)	mg/kg	ND
Chromium (Cr)	mg/kg	ND
Chromium VI (Cr-VI)	mg/kg	ND
Cobalt (Co)	mg/kg	ND
Copper (Cu)	mg/kg	ND
Lead (Pb)	mg/kg	ND
Nickel (Ni)	mg/kg	ND
Mercury (Hg)	mg/kg	ND
Selenium (Se)	mg/kg	ND
Tin (Sn)	mg/kg	ND
Manganese (Mn)	mg/kg	0.2
Zinc (Zn)	mg/kg	ND
Barium (Ba)	mg/kg	ND
Conclusion	-	DATA

Note:

ND = Not detected ">" = Greater than Conc. = Concentration
mg/kg = milligram(s) per kilogram mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 % % = percent
Detection Limit (mg/kg) - (Sb) 2, (As) 0.05, (Cd) 0.05, (Cr) 0.25, (Cr-VI) 0.5, (Co) 0.25, (Cu) 5, (Pb) 0.1, (Ni) 0.25, (Hg) 0.02, (Se) 5, (Sn) 0.25, (Mn) 0.1, (Zn) 5, (Ba) 2

Remark:

-

**Indicates does not meet the requirements

APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES		
TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Colourfastness to Domestic and Commercial Laundering	BS EN ISO 105 C06 EN ISO 105 C06 ISO 105 C06 TS EN ISO 105 C06	±0.5 Grade
Colourfastness to Water	BS EN ISO 105 E01 ISO 105 E01 TS EN ISO 105 E01	±0.5 Grade
Colourfastness to Light	BS EN ISO 105 B02 ISO 105 B02 EN ISO 105 B02 TS EN ISO 105 B02	±0.5 Grade
Colourfastness to Drycleaning	ISO 105 D01 BS EN ISO 105 D01 TS EN ISO 105 D01	±0.5 Grade
Colourfastness to Perspiration	ISO 105 E04 BS EN ISO 105 E04 TS EN ISO 105 E04	±0.5 Grade
Colourfastness to Rubbing	ISO 105 X12 BS EN ISO 105 X12 TS EN ISO 105 X12	±0.5 Grade
Dyes (Forbidden and Disperse)	DIN 54231	Allergenic dyes ±13.65% Carcinogenic dyes ±18.10%
Chlorophenols	§ 64 LFGB B 82.02-08 or DIN EN ISO 17070 CPSD-AN-00094-MTHD	±22.08%
Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs) including all isomers	EN ISO 18254	±11.31%
Organotin Compounds	ISO 16179, ISO 22744-1	±26.00%
Polycyclic Aromatic Hydrocarbons (PAHs)	CPSD-AN-00090-MTHD	±19.44%
Flame Retardants	EU REACH, ROHS & ISO 17881-1 CPSD-AN-00051-MTHD	±18.19%
Dimethylfumarate (DMFu)	CPSD-AN-00647-MTHD	±16.25%
pH Value	ISO 4045	±2.08%
Formaldehyde Content	BS EN ISO 14184-1	±4.85%
Azo-amines and Arylamine salts	EN ISO 14362-1	± % 21,04

APPENDIX

List of Azo-amines and Arylamine salts:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	4-Aminodiphenyl	92-67-1	15	4,4'-Methylene-bis-(2-chloraniline)	101-14-4
2	Benzidine	92-87-5	16	4,4'-Oxydianiline	101-80-4
3	4-Chloro-o-toluidine	95-69-2	17	4,4'-Thiodianiline	139-65-1
4	2-Naphthylamine	91-59-8	18	o-Toluidine	95-53-4
5	o-Aminoazotoluene	97-56-3	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8	20	2,4,5-Trimethylaniline	137-17-7
7	4-Chloroaniline (p-Chloroaniline)	106-47-8	21	o-Anisidine	90-04-0
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3
9	4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline)	101-77-9	23	2,4-Xylidine	95-68-1
10	3,3'-Dichlorobenzidine	91-94-1	24	2,6-Xylidine	87-62-7
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	25	4-chloro-o-toluidinium chloride	3165-93-3
12	3,3'-Dimethylbenzidine (4,4'-Bi-o-tolidine)	119-93-7	26	2-Naphthylammoniumacetate	553-00-4
13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl-4,4'-diaminodiphenylmethane)	838-88-0	27	4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7
14	p-Cresidine	120-71-8	28	2,4,5-trimethylaniline hydrochloride	21436-97-5

List of Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs), including all isomers:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Nonylphenol (NP)	104-40-5	3	Nonylphenol ethoxylated (NPEO)	68412-54-4
2	Octylphenol (OP)	140-66-9	4	Octylphenol ethoxylated (OPEO)	9002-93-1

List of Chlorophenols:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Pentachlorophenol (PCP)	87-86-5	2	Tetrachlorophenol (TeCP): 2,3,5,6- Tetrachlorophenol 2,3,4,6- Tetrachlorophenol 2,3,4,5- Tetrachlorophenol	 935-95-5 58-90-2 4901-51-3

Organotin Compounds:			
No.	**Name**	**No.**	**Name**
1	Tributyltin (TBT)	4	Triphenyltin (TPhT)
2	Dibutyltin (DBT)	5	Dioctyltin (DOT)
3	Monobutyltin (DBT)	-	-

List of Flame Retardants:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Polybromobiphenyles (PBBs)	59536-65-1	4	Polybromodiphenyl ethers (PBDEs)	Various
2	Tris(2,3-dibromopropyl) phosphate (TRIS)	126-72-7	5	Hexabromocyclododecane (HBCDD)	Various
3	Tris-(aziridinyl)-phosphineoxide (Tris (1-aziridinyl) phosphine oxide) or (TEPA)	545-55-1	-	-	-

List of Polycyclic Aromatic Hydrocarbons (PAHs):					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Naphthalene	91-20-3	10	Chrysene	218-01-9
2	Acenaphthylene	208-96-8	11	Benzo (a) pyrene	50-32-8
3	Acenaphthene	83-32-9	12	Indeno (1,2,3-cd) pyrene	193-39-5
4	Fluorene	86-73-7	13	Dibenzo (a,h) anthracene	53-70-3
5	Phenanthrene	85-01-8	14	Benzo (g,h,i) perylene	191-24-2
6	Antracene	120-12-7	15	Benzo (b) fluoranthene	205-99-2
7	Fluoranthene	206-44-0	16	Benzo (k) fluoranthene	207-08-9
8	Pyrene	129-00-0	17	Benzo (j) fluoranthene	205-82-3
9	Benzo (a) anthracene	56-55-3	18	Benzo (e) pyrene	192-97-2

Perfluorinated Compounds (PFC) By Lcmsms					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Perfluorobutyric acid	375-22-4	31	Perfluoro-1-heptanesulfonic acid	375-92-8
2	Perfluoropentanoic acid	2706-90-3	32	Perfluoro-1-heptanesulfonic acid potassium salt	60270-55-5
3	Perfluoro-n-hexanoic acid	307-24-4	33	Perfluorooctanesulfonic acid	1763-23-1
4	Perfluoro-n-heptanoic acid	21615-47-4	34	Perfluorooctanesulfonic acid potassium salt	2795-39-3
5	7H-Perfluoroheptanoic acid	375-85-9	35	Ammonium perfluorooctanesulfonate	29081-56-9
6	Perfluoro-n-octanoic acid	335-67-1	36	Perfluorooctanesulfonic acid lithium salt	29457-72-5
7	Perfluorooctanoyl fluoride	335-66-0	37	Perfluoro-1-octanesulfonyl fluoride	307-35-7
8	Methyl perfluorooctanoate	376-27-2	38	Perfluorooctane sulfonate diethanolamine salt	70225-14-8
9	Ethyl perfluorooctanonate	3108-24-5	39	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate NDecyl-N,N-dimethyl-1-decanaminium salt	251099-16-8
10	Sodium perfluorooctanoate	335-95-5	40	Perfluorodecane sulfonic acid	335-77-3
11	Potassium perfluorooctanoate	2395-00-8	41	Perfluorodecane sulfonic acid sodium salt	335-77-3
12	Silver perfluorooctanoate	335-93-3	42	Perfluorodecane sulfonic acid sodium salt	2806-15-7
13	Ammonium pentadecafluorootanoate	3825-26-1	43	Perfluorodecane sulfonic acid potassium salt	2806-16-8
14	Perfluoro-n-nonanoic acid	375-95-1	44	1H,1H,2H,2H-perfluorohexane sulfonate acid	757124-72-4
15	Ammonium perfluorononanoate	4149-60-4	45	1H,1H,2H,2H-perfluorohexane sulfonate acid sodium salt	-
16	Sodium perfluorononanoate	21049-39-8	46	1H,1H,2H,2HPerfluorooctanesulphonic acid	27619-97-2
17	Perfluoro-n-decanoic acid	335-76-2	47	1H,1H,2H,2HPerfluorodencane sulfonate acid	39108-34-4
18	2H,2H-Perfluorodecanoic acid	27854-31-5	48	1H,1H,2H,2HPerfluorodencane sulfonate acid, Sodium salt	-
19	Perfluoro-3,7-dimethyloctanoic acid	172155-07-6	49	1H,1H,2H,2H-Perfluorododecane sulfonic acid	120226-60-0
20	Perfluoroundecanoic acid	2058-94-8	50	Perfluorooctane sulfonamide	754-91-6
21	2H,2H,3H,3H-Perfluoroundecanoic acid	34598-33-9	51	N-Methylperfluoro-1-octanesulfonamide	31506-32-8
22	Perfluorododecanoic acid	307-55-1	52	N-Ethylperfluoro-1-octanesulfonamide	4151-50-2
23	Perfluorotridecanoic acid	72629-94-8	53	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7
24	Perfluorotetradecanoic acid	376-06-7	54	2-(N-Ethylperfluoro-1-octanesulfonamido)-ethanol	1691-99-2
25	Perfluorobutanesulfonic acid	375-73-5	55	Perfluorooctane sulfonamidoacetic acid	17527-29-6
26	Perfluorobutanesulfonic acid potassium salt	29420-49-3	56	2-(N-Methylperfluorooctane sulfoamido) acetic acid	2355-31-9
27	Perfluorobutanesulfonic acid hydrate	59933-66-3	57	N-Ethylperfluorooctane sulfonamidoacetate	2991-50-6
28	Perfluorohexanesulfonic acid	355-46-4	58	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanic acid	13252-13-6
29	Perfluorohexanesulfonic acid potassium salt	3871-99-6			
30	Perfluorohexanesulfonic acid sodium salt	82382-12-15			
	CAS-No. = Chemical Abstracts Service registry number				

-END OF REPORT-