



BRISBANE MOSS

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Technical Document		Article-	Rye	Release Date-	01 July 2025
Description-	Cavalry Twill		Composition-	100% Cotton	
Applications-	Apparel				
Weight (g/m ²)	320		UNI 5114		
Weight Linear (g/m)	570				
Warp Yarn per Inch	111		UNI EN 1049/2		
Weft Yarn per Inch	55				
Warp Yarn Count	16		ISO 7211/5		
Weft Yarn Count	10				
Minimum Usable Width	146cm		UNI EN 1773		
Customs Tariff Code (HS)	52093200				
County of Origin	Turkey				
Yarn Origin	USA/Turkey				
Weaving Origin	Turkey				
Dyeing/Finishing Origin	Turkey				
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	650 N		UNI EN ISO 13934-2	
	Weft	600 N			
Tear Strength	Warp	17N		UNI EN ISO 13937-2	
	Weft	30N			
Seam Slippage (6mm)	Warp	> 20kg		UNI EN ISO 13936-1	
	Weft	> 20kg			
Abrasion Resistance	Face	Grade 4 @ 5000 Rubs		UNI EN ISO 12947-2	
Martindale	Face	Breakdown @ 30000 Rubs			
Pilling (2000 Revolutions)	Face	Grade 3		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
Dry Cleaning	UNI EN ISO 105-D01		4	4	4	4	4	4
Dry Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4
Wet Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4
Acid Pers	UNI EN ISO 105-E04		4	4	4	4	4	4
Alkaline Pers	UNI EN ISO 105-E04		4	4	4	4	4	4
Water	UNI EN ISO 105-E01		4	4	4	4	4	4
Washing	UNI EN ISO 105-C06		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
Dry Cleaning	UNI EN ISO 105-D01		4	4	4	4	4	4
Dry Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4
Wet Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4
Acid Pers	UNI EN ISO 105-E04		4	4	4	4	4	4
Alkaline Pers	UNI EN ISO 105-E04		4	4	4	4	4	4
Water	UNI EN ISO 105-E01		4	4	4	4	4	4
Washing	UNI EN ISO 105-C06		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	4						
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)-								
Compliant with the National Standard of the People's Republic of China				GB18401-2010				
Better Cotton Available				1030682-1				
Okeo-Tex Standard 100 Certified				11-52140 Shirley				

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BUREAU
VERITAS

**BV CPS TEST LABORATUVARLARI LTD. STI.
BUREAU VERITAS CONSUMER PRODUCTS
SERVICES**

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Test TS EN ISO/IEC 17025 AB-0505-T
AB-0505-T
72251810462
07-25

TEST REPORT

LAB LOCATION: TURKEY

SERVICE TYPE: Regular

LAB NUMBER: (7225)181-0462

THE DATE OF RECEIPT OF TEST ITEM: June 30, 2025

START DATE FOR TESTING: June 30, 2025

RE-CONF.DATE: July 01, 2025

DATE END OF TEST: July 09, 2025

NUMBER OF WORKING DAYS: 6.0

CUSTOMER NAME / ADDRESS CONTACT NAME : M CHAPMAN&SONS LTD
(Address: Bridgeroyd Works, Halifax Road, Todmorden, OL14 6DF)
(Attn: Paige Newham-Foulds)

BUYER : /

SUPPLIER REFERENCE : Style Number: /
PO Number: /

SAMPLE DESCRIPTION : Woven Fabric Samples (Rye Cavalry Twill)
(Claimed Fiber Content: 100% Cotton)
(Claimed Fabric Weight: /)

COLOUR : Sample A: Black
Sample B: Stone

SUBMITTED CARE INSTRUCTION :

REASON FOR REVISION : /



Date Out
(09/07/2025)

Furkan Yilmaz
Client Team Lead

Hasan Altıngül
Deputy General Manager Operation
(09/07/2025)

C/N/ ET/SD

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. 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. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from the date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Testing reports without signature are not valid. BV CPS Test Laboratories is not responsible for deviations for the accuracy of the information provided by the customer that may affect the validity of the test results. Test results given in this test report represent only the sample(s) delivered to the laboratory, as sent to BV CPS Test Laboratories by the client/vendor via courier, cargo and/or manual delivery. No sampling is performed by BV CPS Test Laboratories.

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
Seam Tensile Properties: Grab 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
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.



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COMPONENT LIST / LIST OF MATERIALS		
COMPONENT	DESCRIPTION	COMPOSITION
I001	Sample A: Black Woven Base	/
I002	Sample B: Stone Woven Base	/

C/N/ET/SD

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Controlled by: Sinem Özturp
Approved by: Meltem Mat



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ORIGINAL
(SAMPLE IMAGE)



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TEST RESULTS

REQUIREMENTS

DIMENSIONAL STABILITY TO WASHING

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

SAMPLE A

	Original (mm)	After Wash (mm)	Change (%)	/
LENGTH	350	346	-1.1	
WIDTH	350	343	-2.0	
(+) Extension		(-) Shrinkage		

DIMENSIONAL STABILITY TO WASHING

(DRY CLEANING)

SAMPLE A

	Original (mm)	After Wash (mm)	Change (%)	/
LENGTH	350	349	-0.3	
WIDTH	350	349	-0.3	
(+) Extension		(-) Shrinkage		

DIMENSIONAL STABILITY TO WIRA STEAM

(BS 4323)

SAMPLE A

	Original (mm)	After Steam (mm)	Dimensional Change (%)	/
Length	250	249	-0.4	
Width	250	249	-0.4	
(+) Extension		(-) Shrinkage		



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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)

SAMPLE A

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

SAMPLE B

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining On Acetate	4-5	/
Colour Staining On Cotton	4-5	
Colour Staining On Nylon/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)

SAMPLE A

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

SAMPLE B

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



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TEST RESULTS

REQUIREMENTS

COLOURFASTNESS TO PERSPIRATION (ISO 105-E04:2013, MULTIFIBRE DW)			
SAMPLE A	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 Nylon/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	
SAMPLE B	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 Nylon/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	



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TEST RESULTS

REQUIREMENTS

COLOURFASTNESS TO DRYCLEANING

(ISO 105-D01: 2010, MULTIFIBRE DW)

SAMPLE A

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

SAMPLE B

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining On Acetate	4-5	/
Colour Staining On Cotton	4-5	
Colour Staining On Nylon/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- 150 DEGREE, CELSIUS @ 15 SECONDS)

WARM IRON

SAMPLE A

	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	/

SAMPLE B

	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	/

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TEST RESULTS

REQUIREMENTS

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

SAMPLE A

RATING (NUMERICAL MEAN)

4

/

SAMPLE B

RATING (NUMERICAL MEAN)

4

/

COLOURFASTNESS TO RUBBING

(ISO 105-X12:2016 / BS EN ISO 105-X12:2016 / DIN EN ISO 105-X12:2016)

SAMPLE A

LENGTHWISE

WIDTHWISE

Dry

4-5

4-5

/

Wet

3

3

/

SAMPLE B

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

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TEST RESULTS

REQUIREMENTS

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

SAMPLE A					
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 A					
	Sample 1	Sample 2	Sample 3	Lowest Result	
NO. OF RUBS	@30000 Revs Breakdown	@30000 Revs Breakdown	@30000 Revs Breakdown	@30000 Revs Breakdown	/
SHADE CHANGE @5000 Rubs	4				/

TEAR PROPERTIES OF FABRICS: SINGLE TEAR METHOD

(ISO 13937-2:2000)

SAMPLE A					
ACROSS WARP (N)				17.7	/
ACROSS WEFT (N)				30.2	/
*REMARK					

TENSILE PROPERTIES OF FABRICS: GRAB METHOD

(ISO 13934-2:1999)

SAMPLE A					
WARP (N)				682	/
WEFT (N)				627	/
*REMARK					

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TEST RESULTS

REQUIREMENTS

SLIPPAGE RESISTANCE OF YARNS AT SEAM: FIXED SEAM OPENING METHOD

(ISO 13936-1:2004)

SAMPLE A

	SEAM SLIPPAGE	SEAM STRENGTH(N)	/
WARP	NSS	>200	
WEFT	NSS	>200	
* 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 (NSS) NO SEAM SLIPPAGE			

SEAM TENSILE PROPERTIES: GRAB METHOD

(ISO 13935-2:2014)

SAMPLE A

	SEAM STRENGTH (N)	MODE OF RUPTURE	/
WARP	369.7	STB	
WEFT	276.5	STB	
* 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			

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TEST RESULTS**REQUIREMENTS****FLAMMABILITY OF CLOTHING TEXTILES**(16 CFR 1610)**SAMPLE A**

CLASSIFICATION

IF SAMPLE FALLS UNDER SPECIFIC EXEMPTIONS AS LISTED BELOW, THE REPORT SHOULD BE RATED AS A PASS AND THE SPECIFIC EXEMPTION SHOULD BE NOTED IN THE REPORT.

CLASS 1

EXEMPT DUE TO FABRIC WEIGHT: 9.0 OZ/YD² THE SUBMITTED SAMPLE(S) IS(ARE) EXEMPT FROM FLAMMABILITY TESTING IN ACCORDANCE WITH 16 CFR 1610.1(D) WHICH STATES:

SPECIFIC EXEMPTIONS

EXPERIENCE GAINED FROM YEARS OF TESTING IN ACCORDANCE WITH THE STANDARD DEMONSTRATES THAT CERTAIN FABRICS CONSISTENTLY YIELD ACCEPTABLE RESULTS WHEN TESTED IN ACCORDANCE WITH THE STANDARD. THEREFORE, PERSONS AND FIRMS ISSUING AN INITIAL GUARANTY OF ANY OF THE FOLLOWING TYPES OF FABRICS, OR OF PRODUCTS MADE ENTIRELY FROM ONE OR MORE OF THESE FABRICS ARE EXEMPT FROM ANY REQUIREMENT FOR TESTING TO SUPPORT GUARANTIES OF THOSE FABRICS.

1. PLAIN SURFACE FABRICS, REGARDLESS OF FIBER CONTENT, WEIGHING 2.6 OUNCES PER SQUARE YARD OR MORE; AND
2. ALL FABRICS, BOTH PLAIN SURFACE AND RAISED-FIBER SURFACE, REGARDLESS OF WEIGHT, MADE ENTIRELY FROM ANY OF THE FOLLOWING FIBERS OR ENTIRELY FROM COMBINATION OF THE FOLLOWING FIBERS: ACRYLIC, MODACRYLIC, NYLON, OLEFIN, POLYESTER, WOOL.

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TEST RESULT

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	
		I001	I002
Test Item(s)	-	I	I
Test Method	-	I	I
Parameter	-	-	-
pH Value of Extract Solution	-	-	-
Temp. of Aqueous Extract	deg. C	21.7	21.3
pH Value of Aqueous Extract	-	6.6	6.9
Conclusion	-	DATA	DATA

Note / Key :

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

Remark :

Formaldehyde

Test Method I : All materials except Leather: 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+I002	/	7	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+I002	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+I002	I	/	ND	mg/kg	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - Each (NP & OP) 5; (NPEO & OPEO) 30

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

Conc. = Concentration

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+I002	/	NF	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+I002	/	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

REQUIREMENTS

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+I002	/	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

REQUIREMENTS

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+I002	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	
I002	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

REQUIREMENTS

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+I002	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:



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TEST RESULTS

REQUIREMENTS

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
	-	-	-	-	-	-

Tested Item(s)	Unit	Result
-	-	-
I001+I002		
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	ND
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 %
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

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

Conc. = Concentration

Remark:

**Indicates does not meet the requirements

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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%
Flame Retardants	EU REACH, ROHS & ISO 17881-1 CPSD-AN-00051-MTHD	±18.19%
Per- and Polyfluoroalkyl substances (PFAS)	CPSD-AN-00668-MTHD CPSD-AN-00667-MTHD EN 17681-1	± % 24,08 ± % 24,48
Alkylphenols (APs) and Alkylphenol Ethoxylates (APEOs) including all isomers	EN ISO 18254	±11.31%

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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



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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	Diocetyl tin (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	-	-	-

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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 perfluorooctanoate	3108-24-5	39	1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-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 pentadecafluorooctanoate	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,2HPerfluorododecane sulfonate acid	39108-34-4
18	2H,2H-Perfluorodecanoic acid	27854-31-5	48	1H,1H,2H,2HPerfluorododecane 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) propanoic 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

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