



**BRISBANE
MOSS**

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Technical Document		Article-	Tennyson	Release Date-	01 December 2025
Description-	Heavy 3/1 Drill		Composition-	100% Cotton	
Applications-	Apparel				
Weight (g/m2)	310		UNI 5114		
Weight Linear (g/m)	465				
Warp Yarn per Inch	116		UNI EN 1049/2		
Weft Yarn per Inch	68				
Warp Yarn Count	3/60s		ISO 7211/5		
Weft Yarn Count	3/30s				
Minimum Usable Width	146cm		UNI EN 1773		
Customs Tariff Code (HS)	52093900				
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	90kg	UNI EN ISO 13934-1		
	Weft	130kg			
Tear Strength	Warp	1600g	UNI EN ISO 13927-2		
	Weft	1600g			
Seam Slippage (6mm)	Warp	> 20kg	UNI EN ISO 13935-1		
	Weft	> 20kg			
Abrasion Resistance (9kPa)	Face	Grade 4/5 @ 30,000 Rubs	UNI EN ISO 12947-2		
Pilling (2000 Revolutions)	Face	Grade 4/5	UNI EN ISO 12945-2		
Martindale	Face	Grade 4/5	20,000rpm		
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		3	3	3	3	3	3
Dry Ironing	UNI EN ISO 105-X11		3	3	3	3	3	3
Wet Ironing	UNI EN ISO 105-X11		3	3	3	3	3	3
Acid Pers	UNI EN ISO 105-E04		3	3	3	3	3	3
Alkaline Pers	UNI EN ISO 105-E04		3	3	3	3	3	3
Water	UNI EN ISO 105-E01		3	3	3	3	3	3
Washing	UNI EN ISO 105-C06		3	3	3	3	3	3
Dry Rubbing	UNI EN ISO 105-X12			3/4				
Wet Rubbing	UNI EN ISO 105-X12			2/3				
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			3				
Light	UNI EN ISO 105-B02	4						

Chemical and Ecotoxicological-		
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
Okeo-Tex Standard 100 Certified		11-52140 Shirley



Test Report	No. 28515398	Date: 26 th November 2024	Page 1 of 9
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Sample Description : Heavy 3/1 Drill
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Fabric Tennyson 100% Cotton 310 gsm
PO Number : 13281-17A
Colour : Black / 14T
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 15th November 2024
 Testing Period : 15th November 2024 – 26th November 2024
 Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property			
Colour Fastness to Washing	Data	Tear Strength - Trouser	Data
Colour Fastness to Dry Cleaning	Data	Seam Slippage	Data
Colour Fastness to Perspiration	Data	Pilling Resistance	Data
Colour Fastness to Water	Data	Abrasion Resistance	Data
Colour Fastness to Light*	Data	Yarn Count*	Data
Colour Fastness to Hot Pressing*	Data	Formaldehyde*	Pass
Colour Fastness to Rubbing	Data	pH Value	Data
Dimensional Stability to Washing	Data	Bow & Skew**	Data
Dimensional Stability to Dry Cleaning**	Data	Azo Dyes*	Pass
Dimensional Stability to Free Steam (wira)*	Data	Mass per Unit Area	Data
Tensile Strength	Data	Tear Strength - Elmandorf	Data

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

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Signed for and on behalf of
TÜV Rheinland UK LTD

Christopher
 Clarke
 Digitally signed by
 Christopher Clarke
 Date: 2024.11.27
 10:09:13 Z
Chris Clarke
Laboratory Supervisor



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Test result is drawn according to the kind and extent of tests performed.



Test Report	No. 28515398	Date: 26 th November 2024	Page 2 of 9
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Results:

Colour Fastness to Washing	
Washing Condition: A2S, 30°C (Deviation) With ECE(B) + Sodium Perborate, 10 Steel Balls.	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good	

Colour Fastness to Water	
BS EN ISO 105 E01: 2013	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good	

Colour Fastness to Rubbing			
BS EN ISO 105 X12: 2016			
Sample	Result		
	Warp		Weft
	Dry: 3-4		Dry: 3-4
	Wet: 3	% Soak: 100	Wet: 2 % Soak: 100
Atmospheric Conditions: 65% RH, 20°C			
Conditioning time of sample and rubbing cloth: 4 Hours			



Test Report	No. 28515398	Date: 26 th November 2024	Page 3 of 9
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Colour Fastness to Light BS EN ISO 105 B02 Method 3: 2013	
Sample	
	4

Colour Fastness to Hot Pressing BS EN ISO 105 X11 @ 150°C: 1994	
Sample	
Sample	<p>Immediately After Testing colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5</p> <p>After Conditioning Colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5</p> <p>Colour Staining Damp: 4 Wet: 3-4</p>

Colour Fastness to Dry Cleaning BS EN ISO 105-D01: 2010	
	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good	



Test Report	No. 28515398	Date: 26 th November 2024	Page 4 of 9
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Colour Fastness To Perspiration BS EN ISO 105-E04: 2013		
Sample	Result	
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining		
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	4-5	4-5
Polyamide	4-5	4-5
Polyester	4-5	4-5
Acrylic	4-5	4-5
Wool	4-5	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Abrasion Resistance (BS EN ISO 12947-2:2016/AC:2006); Martindale Wear & Abrasion Tester; 9 kPa Pressure) The criterion for judging end point was Two Threads Broken			
Result			
	Specimen 1	Specimen 2	Specimen 3
No Two Thread Breakdown	30,000	30,000	30,000
Colour Change At 3000 (rubs)	4-5	4-5	4-5

Remarks: Grey Scale Rating is based on the step scale of 1 to 5, where 1 is bad and 5 is good
Observation Technique:40 fold magnification

Pilling Resistance (BS EN ISO 12945-2:2020; Martindale Abrasion & Pilling Tester; Tested against self) No cleansing required	
	Average Result
After 2000 Rubs Rating	P: 4-5 F: 4-5 M: 4-5

P=Pilling
F-Fuzzing
M=Matting



Test Report	No. 28515398	Date: 26 th November 2024	Page 5 of 9
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Tensile Strength (BS EN ISO 13934-1:2013)	
Direction	Result
Warp	94.8 kg
Weft	135.1 kg

Dimensional Change After Washing BS EN ISO 6330: 2012 3N @ 30°C Flat Dry	
Direction	%Change
Warp	-0.7
Weft	-1.1

Dimensional Change After Commercial Dry Cleaning (Commercial dry clean cycle)	
Direction	%Change
Warp	-0.8
Weft	0.0

Dimensional Change to Free Steam (wira) BS 4323: 1979	
Direction	%Change
Warp	-0.5 %
Weft	-0.5 %



Test Report	No. 28515398	Date: 26 th November 2024	Page 6 of 9
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Bow & Skewness ISO 13015: 2013	
Direction	
Bow	0.0 %
Skew	0.2 %

Yarn Count ISO 7211-5 Method A	
Sample	Result
	Warp: Nm: 33.5, Ne: 19.8 Weft: Nm: 16.1, Ne: 9.5 Nm: Metric Count Ne: Cotton Count

Formaldehyde Content ISO 14184-1: 2011	
Sample	Result
	Not Detected <16 mg/kg

pH Value ISO 3071: 2005 (withdrawn)	
Sample	Result
	pH 7.12
pH value of Grade 3 water: 7.1	
Temperature of the Grade 3 water: 19.4	



Test Report	No. 28515398	Date: 26 th November 2024	Page 7 of 9
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Seam Slippage BS EN ISO 13936-1: 2004 6mm SO	
Sample	Result
Warp	A 6mm seam opening was not found Seam breakdown > 20.0Kg
Weft	A 6mm seam opening was not found Seam breakdown > 20.0Kg
Remarks:	

Tearing Strength BS EN ISO 13937-2: 2000	
Sample	Result
Warp	1616 g
Weft	1641 g

Tearing Strength (BS EN ISO 13937-1:2000; Elmendorf Tear)	
Sample	Result
Warp	2007 g
Weft	5865 g

Fabric Weight Per Unit Area (BS EN 12127:1998)	
Sample	Result (g/m²)
	322.3 g/m ² Claimed: 310 g/m ²
g/m ² - grams per square meter	



Test Report	No. 28515398	Date: 26th November 2024	Page 8 of 9
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4. Banned azo dyes

Test Method: Method 1 - EN ISO 14362-1:2017 (Textiles) (Buffer extraction)
 Method 2 - EN ISO 14362-1:2017 (Textiles) (Xylene extraction)
 Method 3 - ISO 17234-1:2020 (Leather)
 Method 4 - EN ISO 14362-3:2017 (Textile, 4-aminoazobenzene confirmation)
 Method 5 - ISO 17234-2:2011 (Leather, 4-aminoazobenzene confirmation)

Test Results:

		Material No. M001				Test No. T001-1	
		Method No. Method 1				A22 Confirmation Method No. --	
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	n.d.	
A2	Benzidine	92-87-5	mg/kg	5	30	n.d.	
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	n.d.	
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	n.d.	
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	n.d.	
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	n.d.	
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	n.d.	
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	n.d.	
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	n.d.	
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	n.d.	
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	n.d.	
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	n.d.	
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	n.d.	
A14	p-Cresidine	120-71-8	mg/kg	5	30	n.d.	
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	n.d.	
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	n.d.	
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	n.d.	
A18	o-Toluidine	95-53-4	mg/kg	5	30	n.d.	
A19	4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	30	n.d.	
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	n.d.	
A21	O-Anisidine	90-04-0	mg/kg	5	30	n.d.	
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	n.d.	
A23^	2,4-xylidine	95-68-1	mg/kg	5	30	n.d.	
A24^	2,6-xylidine	87-62-7	mg/kg	5	30	n.d.	
*2	2-Naphthyl-ammoniumacetate	553-00-4	mg/kg	5	30	n.d.	
A26	4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	n.d.	
A25	4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	n.d.	
A27	4-Methoxy-m-phenylene diammonium sulphate	39156-41-7	mg/kg	5	30	n.d.	
A28	2,4,5-trimethylaniline hydrochloride	21436-97-5	mg/kg	5	30	n.d.	



Test Report	No. 28515398	Date: 26 th November 2024	Page 9 of 9
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Remark:

- * The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- ** Azo colorants that are able to form 4-aminoazobenzene (A22) CAS-number 60-09-3, generate under the condition of this method Aniline (CAS-number 62-53-3) and 1,4-phenylenediamine (CAS-number 106-50-3.)
- *** Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN ISO 14362-3:2017 / ISO 17234-2:2011.
- **** Azo colorants are detected & quantified by GC/MS and confirmed by HPLC/DAD or HPLC/MSMS.

-End of Test Report-



Test Report	No. 28515399	Date: 25th November 2024	Page 1 of 4
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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Heavy 3/1 Drill
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Tennyson 100% Cotton 310 gsm
PO Number : 11612-10A
Colour : Cream / 2648T
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 15th November 2024
 Testing Period : 15th November 2024 – 25th November 2024
 Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property	
Colour Fastness to Washing	Data
Colour Fastness to Dry Cleaning	Data
Colour Fastness to Perspiration	Data
Colour Fastness to Water	Data
Colour Fastness to Light*	Data
Colour Fastness to Hot Pressing*	Data
Colour Fastness to Rubbing	Data

*Sub Contracted tests withing TUV Group Laboratories (Turkey)
 **Not UKAS Accredited

Signed for and on behalf of
 TÜV Rheinland UK LTD

Christopher
Clarke
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 Christopher Clarke
 Date: 2024.11.25
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Chris Clarke
Laboratory Supervisor



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Test Report	No. 28515399	Date: 25 th November 2024	Page 2 of 4
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Results:

Colour Fastness to Washing Washing Condition: A2S, 30°C (Deviation) With ECE(B) + Sodium Perborate, 10 Steel Balls.	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness to Water BS EN ISO 105 E01: 2013	
Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness to Rubbing BS EN ISO 105 X12: 2016			
Sample	Result		
	Warp		Weft
	Dry: 4-5	Wet: 4-5	Dry: 4-5
			Wet: 4-5

Atmospheric Conditions: 65% RH, 20°C
Conditioning time of sample and rubbing cloth: 4 Hours



Test Report	No. 28515399	Date: 25 th November 2024	Page 3 of 4
--------------------	--------------	--------------------------------------	-------------

Colour Fastness to Light BS EN ISO 105 B02 Method 3: 2013	
Sample	
	>4

Colour Fastness to Hot Pressing BS EN ISO 105 X11 @ 150°C: 1994	
Sample	
Sample	<p>Immediately After Testing Colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5</p> <p>After Conditioning Colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5</p> <p>Colour Change Damp: 4-5 Wet: 4-5</p>

Colour Fastness to Dry Cleaning BS EN ISO 105-D01: 2010	
	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
Acetate	4-5
Cotton	4-5
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good	



Test Report	No. 28515399	Date: 25 th November 2024	Page 4 of 4
--------------------	--------------	--------------------------------------	-------------

Colour Fastness To Perspiration BS EN ISO 105-E04: 2013		
Sample	Result	
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining	-	-
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	4-5	4-5
Polyamide	4-5	4-5
Polyester	4-5	4-5
Acrylic	4-5	4-5
Wool	4-5	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

-End of Test Report-



Test Report	No. 28515605	Date: 14 th February 2025	Page 1 of 8
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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Heavy 3/1 Drill
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Tennyson 100% Cotton 310 g/m²
PO Number : 13281-3A
Colour : Black / 14T
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed * : Selected test(s) as requested by applicant

Sample Receiving Date : 3rd February 2025

Testing Period : 3rd February 2025 – 14th February 2025

Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property – REACH Annex XVII	
Aromatic Amine Salts*	Pass
Dimethyl Fumarate*	Pass
Migration of Heavy Metals*	Pass
Flame Retardants*	Pass
AP + APEO (Alkylphenols, Alkylphenol Ethoxylates)*	Pass
Quinoline*	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)*	Pass
Pentachlorophenol (PCP) Content*	Pass
Per – and Polyfluoroalkyl Substances (PFAS)*	Pass
Organotin Compounds Content*	Pass

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

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Signed for and on behalf of
TÜV Rheinland UK LTD

Christopher
Clarke

Digitally signed by
Christopher Clarke
Date: 2025.02.14 09:21:18 Z

Chris Clarke
Laboratory Supervisor

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Test Report	No. 28515605	Date: 14 th February 2025	Page 2 of 8
--------------------	--------------	--------------------------------------	-------------

Material No.	Material	Color	Location
M001	Textile	Black	Woven base

Results:

1. Aromatic Amine Salts

Test Method: DIN EN ISO 14362-1:2017
DIN EN ISO 14362-3:2017
Analyzed by GC-MSD

Test Result:

					Test No.	T001
					Material No.	M001
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	
4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	n.d.	
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	mg/kg	5	30	n.d.	
2,4,5-trimethylaniline hydrochloride	21436-97-5	mg/kg	5	30	n.d.	
2-Naphthyl-ammoniumacetate	553-00-4	mg/kg	5	30	n.d.	
Conclusion					-	

Abbreviation: n.d. = Not Detected (< Reporting Limit)
RL = Reporting Limit
mg/kg = milligram per kilogram

2. Dimethyl fumarate (CAS No. 624-49-7)

Test Method: Organic solvent extraction, GCMS analysis

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram



Test Report	No. 28515605	Date: 14 th February 2025	Page 3 of 8
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3. Migration of Heavy Metals

Test Method: All materials except leather: DIN EN 16711-2:2016
Leather: DIN EN ISO 17072-1:2019

Test Result:

				Test No.	T001
				Material No.	M001
Test Parameter	Unit	RL	Customer Requirement	Result	
Arsenic (As)	mg/kg	0.1	< 1 mg/kg each	n.d.	
Cadmium (Cd)	mg/kg	0.05	< 1 mg/kg each	n.d.	
Chromium (Cr)	mg/kg	0.5	< 1 mg/kg each	n.d.	
Lead (Pb)	mg/kg	0.2	< 1 mg/kg each	n.d.	
Conclusion				Pass	

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram



Test Report	No. 28515605	Date: 14 th February 2025	Page 4 of 8
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4. Flame Retardants

Test Method: 1. Organic solvent extraction, GCMS/LCMSMS
2. Acid digestion, analyzed by ICP-MS

					Test No.	T001
					Material No.	M001
Test Parameter	CAS No.	Unit	RL	Formulation Limit	Test Result	
Octabromodiphenyl ether (OctaBDE)	32536-52-0	mg/kg	100	< 1000 mg/kg	n.d.	
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	mg/kg	100	< 1000 mg/kg	n.d.	
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7	mg/kg	100	not used	n.d.	
Decabromodiphenyl ether (DecaBDE)	1163-19-5	mg/kg	100	< 1000 mg/kg	n.d.	
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/kg	100	< 500 mg/kg	n.d.	
Tris(1-aziridinyl)phosphineoxide (TEPA)	545-55-1	mg/kg	100	not used	n.d.	
Polybromobiphenyls (PBB)	59536-65-1	mg/kg	100	not used	n.d.	
Hexabromocyclododecane (HBCDD)	3194-55-6	mg/kg	100	< 100 mg/kg	n.d.	
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	mg/kg	100	< 500 mg/kg	n.d.	
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	mg/kg	100	< 500 mg/kg	n.d.	
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	mg/kg	100	< 500 mg/kg	n.d.	

Abbreviation: < = less than
RL = Reporting Limit
ppm = part per million



Test Report	No. 28515605	Date: 14 th February 2025	Page 5 of 8
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5.AP + APEO (Alkylphenols, Alkylphenol Ethoxylates)

Test Method: ISO 18254-1:2016
NP and OP: Organic solvent extraction, GCMS
NPEO and OPEO: Organic solvent extraction, LC-MS

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Nonylphenols (NP)	mg/kg	5	-	n.d.
		Octylphenols (OP)	mg/kg	5	-	n.d.
		Nonylphenoethoxylates (NPEO)	mg/kg	20	< 100 mg/kg	n.d.
		Octylphenoethoxylates (OPEO)	mg/kg	20	< 100 mg/kg	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)
RL = Reporting Limit
mg/kg = milligram per kilogram
NA = Not Applicable

6.Quinoline

Test Method: Ref. to DIN 54231:2022

Test Result:

Test No.	Material No.	Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Test Result	Conclusion
T001	M001	Quinoline	91-22-5	mg/kg	10	50	n.d.	Pass

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilograms

Test Report	No. 28515605	Date: 14 th February 2025	Page 6 of 8
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7. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: AFPS GS 2019:01

Test Result:

					Test No.	T001
					Material No.	M001
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	< 1 mg/kg	n.d.	
Chrysene	218-01-9	mg/kg	0.2	< 1 mg/kg	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Anthracene	120-12-7	mg/kg	0.2	Sum 10	n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2		n.d.	
Fluoranthene	206-44-0	mg/kg	0.2		n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2		n.d.	
Phenanthrene	85-01-8	mg/kg	0.2		n.d.	
Pyrene	129-00-0	mg/kg	0.2		n.d.	

Abbreviation: < = less than
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

8. Pentachlorophenol (PCP) Content

Test Method: Ref. to 64 LFGB B82.02-8:2001

Test result

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Pentachlorophenol (PCP)	mg/kg	0.1	≤ 5 mg/kg	n.d.

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram



Test Report	No. 28515605	Date: 14 th February 2025	Page 7 of 8
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9.Per-and polyfluoroalkyl substances(PFAS)

Test Method: Reference EN 17681-1:2022/EN 17681-2:2022, determination by CI-GCMS, GC-MSMS and LC-MSMS.

Test Result:

					Test No.	T001
					Material No.	M001
Test Parameter	CAS NO	Unit	RL	Customer's requirement	Result	
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	µg/m ²	1	< 1 µg/m ²	n.d.	
Perfluorooctane sulfonamide (PFOA)	754-91-6	µg/m ²	1	< 1 µg/m ²	n.d.	
Perfluorooctanoic acid (PFOA)	335-67-1	µg/m ²	1	< 1 µg/m ²	n.d.	
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	mg/kg	1	< 1 µg/m ²	n.d.	
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	mg/kg	1	< 1 µg/m ²	n.d.	
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	mg/kg	1	< 1 µg/m ²	n.d.	
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	mg/kg	1	< 1 µg/m ²	n.d.	
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	mg/kg	1	< 1 µg/m ²	n.d.	
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	mg/kg	1	< 1 µg/m ²	n.d.	
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	mg/kg	1	< 1 µg/m ²	n.d.	
Perfluorocyclohexanol 8:2 (8:2 FTOH)	678-39-7	mg/kg	1	< 1 µg/m ²	n.d.	
Conclusion						Pass

Abbreviation: < = Less than
RL = Reporting Limit
mg/kg = milligram per kilogram
µg/m² = microgram per square metre



Test Report	No. 28515605	Date: 14 th February 2025	Page 8 of 8
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10.Organotin compounds content

Test Method: Organic solvent extraction, GCMS
Ref. to ISO/TS 16179:2012

				Test No.	T001
				Material No.	M001
Test Parameter	Unit	RL	Regulatory Requirement	Result	
TBT(Tributyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	
TPT(Triphenyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	
TOT(Trioctyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	
TCyT(Tricyclohexyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	
TPrT(Tripropyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	
Sum of Tin of tri-substituted organotins	%	NA	< 0.1 %	n.d.	
DBT(Dibutyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	
DOT(Dioctyltin) by weight of tin	%	0.01	< 0.1 %	n.d.	

Abbreviation: < = less than
RL = Reporting Limit
% = percentage
NA = Not Applicable

-End of Test Report-



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VERITAS**

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

Yalcin Kores Cad. No:22 Erdinc Binalari
A Blok 1.Kule 1.Kat 34209 Gunesli, Istanbul / Turkey
Tel:+90.212.494 35 35 Fax:+90.212.494 35 60
email:info.turkey@bvpcs.com.tr
website: www.bureauveritas.com/cps



AB-0505-T
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TEST REPORT

CUSTOMER NAME:

M CHAPMAN&SONS LTD

ADDRESS:

Chapman Works, Manchester
Road, Dunnington, Bumble BB1215PW

ATTN: Paige Newham-Foulds

CC:

LAB NO.:

(7225)328-0286

FORM NO.:

/

THE DATE OF RECEIPT OF TEST ITEM:

NOVEMBER 24, 2025

START DATE FOR TESTING:

NOVEMBER 24, 2025

DATE END OF TEST:

NOVEMBER 26, 2025

REVISION DATE:

/

DIVISION:

/

DEPARTMENT:

/

CATEGORY:

/

BUYER:

/

NO. OF WORKING DAYS:

3.0

OVERALL RATING

PASS

X

FAIL

DATA

Vendor:	M CHAPMAN&SONS LTD	Agent:	/
Fabric Supplier/Mill:	/	Factory/Manufacturer:	/
P.O. No.:	13761	Style No.:	05T
Sample Description:	WOVEN FABRIC SAMPLE (TENNYSON)	Style Description:	/
Color:	KHAKI	Country of Origin:	/
Claimed Fabric Weight:	/	Claimed Fabric Count:	/
Yarn Size:	/	Submitted Size:	/
Size Range:	/	FPU No.:	/



Date Out
(26/11/2025)

Ali Payalan
Senior Client Team Lead

Hasan Altingul
Deputy General Manager - Operations
(26/11/2025)

C/N EC/AP

BV CPS Test Laboratuvarları Ltd. Sti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory.

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

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. 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.

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Page 1 / 5

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TEST REPORT

GPU No.:	/	End Use	/
Product Category:	/		
Test Requested:	SELECTED TEST		
Previous Report No.:	/		
Submitted Fiber Content:	100% COTTON		
Actual Fiber Content:	/		
Submitted Care Instruction(s):			
Client Expected Care Instruction:	/		
Suggested Care Instruction(s):	/		

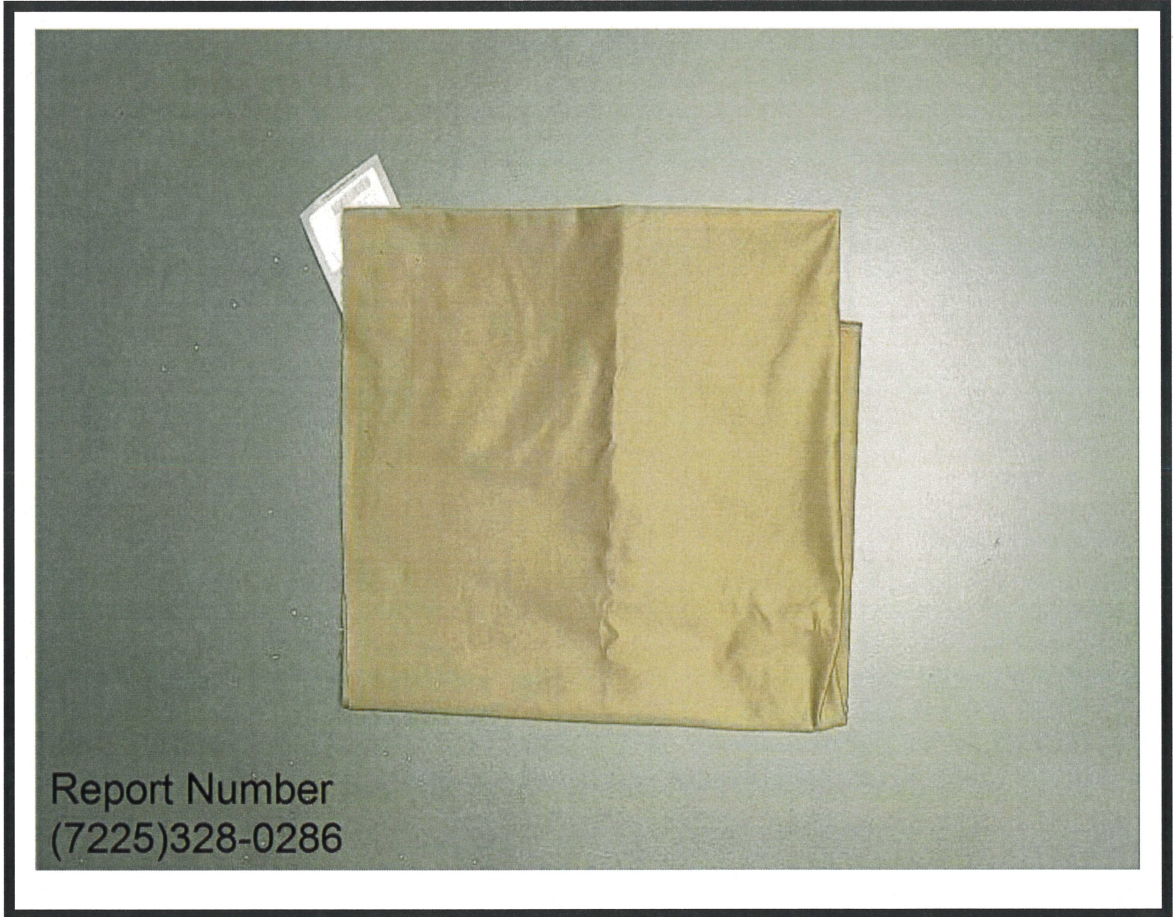


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TEST REPORT

ORIGINAL
(SAMPLE IMAGE)





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TEST REPORT

TEST PROPERTY	PASS	FAIL	DATA	
FLAMMABILITY OF CLOTHING TEXTILES (16 CFR 1610)*	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.



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TEST REPORT

TEST RESULTS

FLAMMABILITY OF CLOTHING TEXTILES(16 CFR 1610)

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.
EXEMPT DUE TO FABRIC WEIGHT: 8.9 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.

** Indicates Below Than Requirement

APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES		
TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
FLAMMABILITY OF CLOTHING TEXTILES	16 CFR 1610	±7,9 %

-END OF REPORT-