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Laboratory Test Report

REPORT NUMBER: **43062005** **PAGE:** **1 of 5**

Prepared for: Mr J. Bank
Oddies Textiles, Unit 3, Bank House
Greenfield Road, Colne
Lancashire
BB8 9NL

Sample described as: C8445 PLUSH FLEECE
Number of samples: 3
Date received: 20/06/2023
Packaging: Supplied without packaging
Condition: visibly undamaged condition.
Batch: N/S
Description: Misty green, Imperial & Red fleece

Reference number(s): C8445
Date(s) tested: 20/06/2023 - 05/07/2023
Declared age: N/A
Tested age grade: N/A
PO/Order number: JAY1509A

Photo of submitted sample

Prepared by

Joanna Wolan, Analytical Chemist

For and on behalf of
Eurofins MTS Consumer Product Testing UK Ltd

Mathew Boddy, Analytical Lab Supervisor
Date: 05/07/2023

The results herein relate only to the items tested. This report is issued in accordance with Eurofins MTS Consumer Product Testing UK Ltd's terms and conditions which are available on request.

UKAS TESTING 1428

Eurofins MTS Consumer Product Testing UK Ltd
118 Lupton Avenue, Leeds, West Yorkshire, LS9 6ED
Tel: 0113 248 8830 Email: info@mts-uk.co.uk
Registered No. 7337435 VAT No. 887127683

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TEST RESULT SUMMARY	
Test requested	**Result**
EN 71-3:2019 + A1:2021 – Migration of Certain Elements	**PASS**

Note: The above testing was performed by a Eurofins Global partner lab.

The PASS result refers only to the materials analysed.

COMPONENT BREAKDOWN LIST:

Test Item	Component description	Material
A	3x fabrics	
A1	Red fabric	Category III
A2	Imperial fabric	Category III
A3	Misty green	Category III

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TEST RESULTS

EN 71-3:2019 + A1:2021 – Migration of Certain Elements

Analyte		Results (mg/kg)									
		A1	A2	A3	-	-	-	-	-	-	-
Aluminium	Al	<3	3.4	6.9	-	-	-	-	-	-	-
Antimony	Sb	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
Arsenic	As	<0.3	<0.3	<0.3	-	-	-	-	-	-	-
Barium	Ba	<2	<2	<2	-	-	-	-	-	-	-
Boron	B	<4	<4	<4	-	-	-	-	-	-	-
Cadmium	Cd	<0.03	<0.03	<0.03	-	-	-	-	-	-	-
Chromium	Cr	0.96	0.21	0.32	-	-	-	-	-	-	-
Cobalt	Co	<0.1	<0.1	<0.1	-	-	-	-	-	-	-
Copper	Cu	<1	<1	<1	-	-	-	-	-	-	-
Lead	Pb	<0.3	<0.3	<0.3	-	-	-	-	-	-	-
Manganese	Mn	<1	<1	<1	-	-	-	-	-	-	-
Mercury	Hg	<0.3	<0.3	<0.3	-	-	-	-	-	-	-
Nickel	Ni	<1	<1	<1	-	-	-	-	-	-	-
Selenium	Se	<3	<3	<3	-	-	-	-	-	-	-
Strontium	Sr	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
Tin	Sn	<2	<2	<2	-	-	-	-	-	-	-
Zinc	Zn	<1	1.4	2.6	-	-	-	-	-	-	-
Conclusion		PASS	PASS	PASS	-	-	-	-	-	-	-

Method: EN 71-3:2019 + A1:2021 using ICP-MS.

Notes: mg/kg = milligram per kilogram
"<" = less than

UoM:

Analyte	Uncertainty (%)	Analyte	Uncertainty (%)
Aluminium	20.62	Lead	33.17
Antimony	33.17	Manganese	20.62
Arsenic	24.50	Mercury	33.17
Barium	33.17	Nickel	24.50
Boron	20.62	Selenium	24.50
Cadmium	24.50	Strontium	20.62
Chromium	24.50	Tin	33.17
Cobalt	24.50	Zinc	20.62
Copper	20.62		

Limits:

Analyte	Cat. I	Cat. II	Cat. III	Analyte	Cat. I	Cat. II	Cat. III
Aluminium	2,250	560	28,130	Lead	2.0	0.5	23
Antimony	45	11.3	560	Manganese	1,200	300	15,000
Arsenic	3.8	0.9	47	Mercury	7.5	1.9	94
Barium	1,500	375	18,750	Nickel	75	18.8	930
Boron	1,200	300	15,000	Selenium	37.5	9.4	460
Cadmium	1.3	0.3	17	Strontium	4,500	1,125	56,000
Chromium III	37.5	9.4	460	Tin	15,000	3,750	180,000
Chromium VI	0.02	0.005	0.053	Organic Tin	0.9	0.2	12
Cobalt	10.5	2.6	130	Zinc	3,750	938	46,000
Copper	622.5	156	7,700				

CONCLUSION

The EN 71-3 screening test performed by Eurofins Consumer Product Testing UK tests for the migration of 16 of the 19 elements restricted by EN 71-3:2019+A1:2021.

It does not analyse for the migration of chromium III, chromium VI, and organic tin, however, suitably low result for overall chromium and overall tin migration may be used to infer compliance with these limits.

Analysis of the sample(s) found that migration of the 16 elements restricted elements did not exceed the respective category limits, and therefore comply with the requirements of EN 71-3:2019+A1:2021.

Overall tin migration from the sample(s) was found to not exceed the in-house inference limit for organic tin and can therefore be inferred as complying with the requirement for organic tin.

Overall chromium migration from the sample(s) was found to not exceed the in-house inference limits for chromium III and chromium VI and can therefore be inferred as complying with the requirements for both.

End of Report

ANNEX A: DECISION RULES

Rule 1	Applicable to any requirement stated to be 'Minimum xxxx' or 'Maximum xxxx': The use of constrained simple acceptance based on the difference between the stated limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is <= 2.5%
Rule 2	Applicable to any requirement stated to be a range (e.g. XXX to YYY or AAA ± B): The use of constrained simple acceptance based on the difference between the stated upper or lower limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is <= 2.5%
Rule 3	For tests based on subjective grading of a result using a 9-point scale (e.g. colour fastness, pilling, etc): Simple acceptance based on the test uncertainty ratio (T.U.R.) being ?4. The risk of false accept or false reject is up to 50% but will be reduced the further the reported result is away from the stated requirement.
Rule 4	IFor tests based on a subjective assessment of a property (e.g. whether a component detaches or not): Simple acceptance based upon the conditions of testing falling within the criteria for test set out in the test method within a conformance probability of 95%. The risk of false accept or false reject of the testing conditions not meeting the specified requirements is 2.5%.
Rule 5	If a validated test method (e.g. BS EN ISO standard) indicates that the measurement uncertainty has already been taken into account when calculating the test result then results may be reported using simple acceptance without the need for the application of the relevant decision rule set out above.

The above rules will be applied by default unless we have agreed a decision rule to the contrary. Eurofins MTS Consumer Product Testing UK Limited reserves the right to refuse to apply decision rules that do not satisfy the requirements of ISO 17025:2017. Unless otherwise stated in the report text above, uncertainty of measurement values are available upon request.