# eurofins

### **Modern Testing Services**

PAGE:

## Laboratory Test Report

**REPORT NUMBER:** 

43062011

**Prepared for:** 

Mr J. Bank Oddies Textiles, Unit 3, Bank House Greenfield Road, Colne Lancashire **BB8 9NL RH1 CRAFT COTTON FABRIC** 

RH1 20/06/2023 - 05/07/2023 N/A N/A **JAY1509A** 

1 of 5

Number of samples: Date received: Packaging: **Condition: Batch: Description**:

Sample described as:

#### 3

20/06/2023 Supplied without packaging visibly undamaged condition. N/S Gold, Marine and Rasberry fabric

### Photo of submitted sample



Reference number(s): Date(s) tested: Declared age: Tested age grade: **PO/Order number:** 

Prepared by

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

Joanne proton

Joanna Wolan, Analytical Chemist

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.



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



## Laboratory Test Report

**REPORT NUMBER:** 

43062011

PAGE:

2 of 5

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	Raspberry fabric	Category III
A2	Marine fabric	Category III
A3	Gold fabric	Category III





## Laboratory Test Report

**REPORT NUMBER:** 

43062011

### PAGE: 3 of 5

2

.

### TEST RESULTS

A I I

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

Results (mg/kg)

Analyte		A1	A2	A3	-	-	-	-	-	-	-
Aluminium	AI	<3	<3	<3	I	-	-	-	-	_	-
Antimony	Sb	< 0.5	< 0.5	< 0.5	-	-	-	-	-	-	-
Arsenic	As	< 0.3	< 0.3	< 0.3	-	_	-	-	-	-	-
Barium	Ba	<2	<2	<2	-	-	_	-	-	-	-
Boron	В	<4	<4	<4	-	-	-	-	-	-	-
Cadmium	Cd	< 0.03	< 0.03	< 0.03	-	-	-	-	-	-	-
Chromium	Cr	< 0.03	0.13	0.11	-		-		-	-	-
Cobalt	Co	< 0.1	<0.1	<0.1	-	-	-		-	-	3 -
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	-	-	-	-	-	-	Peri
Selenium	Se	<3	<3	<3	-	-	-	-	-	-	-
Strontium	Sr	2.4	2.3	< 0.5	-	-	-	-		-	-
Tin	Sn	<2	<2	<2	-	-	-	-	-	-	-
Zinc	Zn	1.1	<1	<1	-	-	-	-	-	-	-

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

opper	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	1,000	300	15.000	Selenium	37.5	9.4	460
Cadmium	13	0.3	17	Strontium	4,500	1,125	56,000
Chromium III	37.5	94	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	26	130	Zinc	3,750	938	46,000
Copper	622.5	156	7,700				

1. The second second

~



## Laboratory Test Report

**REPORT NUMBER:** 

43062011

4 of 5

PAGE:

### 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.

The test results contained in this report relate only to the sample(s) submitted and may not relate to the bulk from which the sample has been taken. This report is issued in accordance with Eurofins Consumer Product Testing UK's terms and conditions which are available on request. This report shall not be reproduced other than in full without prior written approval by Eurofins Consumer





## Laboratory Test Report

REPORT NUMBER: 43062011

PAGE:

### 5 of 5

N.

### **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.





**MODERN TESTING SERVICES (UK) LIMITED** 

Page 1 of 3 pages.

TEST REPORT

#### TRUE CRAFT COTTON PLAINS - RH1

Applicant: Mr J. Bank **Oddies Textiles** Unit 3, Bank House Greenfield Road Colne Lancasshire **BB8 9NL** 

	MTS Lab Reference:	39093006
	Report Date:	23/10/19
S.A.L. Luc	Number of Samples:	5
BIS - JUN	Received on:	30/09/19
if it sight this and the second	Condition received:	Supplied without packaging visibly undamaged condition.

RH1 Bright pink, Baltic, Lime, Hot Tomato, Amethyst fabrics

Reference is made in this report to chromium VI analyses carried out by a sub-contractor laboratory. This testing is outside the scope of UKAS accreditation.

#### RESULTS

EN 71-3:2013+A3:2018 Migration of certain elements	PASS
--	------

Date: 23rd October, 2019 Signature S. Kinhland Prepared by G. S. Kirkland Authorised on behalf of MTS by G. S. Kirkland, Lab Manager Date: 23rd October, 2019 Signature, Kinhland

This report is issued in accordance with MTS (UK)'s terms and conditions which are available on request.

#### Modern Testing Services (UK) Limited

Modern Testing Services (UK) Limited, 118 Lupton Avenue, Leeds, LS9 6ED, UK Tel (44) 0844 556 5596 / 0113 240 7011 Fax: (44) 0113 240 9350 Email: info@mts-uk.co.uk Website: www.mts-uk.co.uk Registered Company 7337435 VAT Registration Number: 997452852

#### EN 71-3:2013+A3:2018 Migration of certain elements

#### Category III - Scraped off material

The EN 71-3 screening test used by MTS (UK) tests for the migration of 16 of the 19 'elements' restricted by EN 71-3:2013+A3:2018;

Please note that a new chromium VI limit of 0.053 mg/kg, imposed by EU Directive 2018/725 will come into force on 18 November 2019, applicable to toys which are placed on the market from this date. This has been applied to the samples tested; if inapplicable, this can be reverted to the previous limit of 0.2 mg/kg on request.

It does not test for the presence of chromium III, chromium VI or organic tin specifically, it does however test for chromium and tin and compliance with the limits for chromium III, chromium VI or organic tin may be inferred from low results from these analyses (see below).

- A. "Amethyst" textile
- B. "Baltic" textile
- C. "Lime" textile
- D. "Bright pink" textile
- E. "Hot tomato" textile

The material(s) complied with the limits of the 16 elements specifically analysed for (see analysis table).

The migration of tin from the sample(s) was determined to be not greater than 4.9 mg/kg, which, when expressed in the form of tributyl tin, would not be greater than the organic tin limit of 12 mg/kg, the material(s) can therefore be inferred as complying with the organic tin limit.

The migration of chromium from samples A and B was greater than the chromium VI limit of 0.053 mg/kg, the material required specific chromium VI migration analysis to determine compliance with the chromium VI limit, this was carried out by a sub-contractor and was found to comply with the limit.

The migration of chromium from the remaining samples was not greater than the chromium VI limit of 0.053 mg/kg, the materials can therefore be inferred as complying with the chromium VI limit.

The migration of chromium from the sample was not greater than the chromium III limit of 460 mg/kg, the material can therefore be inferred as complying with the chromium III limit.

~~~End of page~~~

Prepared by G. S. Kirkland on 23rd October, 2019 Signature: Kinhland Page 2 of 3 pages.

PASS

#### MODERN TESTING SERVICES (UK) LIMITED

Method of test: EN 71-3:2013+A3:2018 Migration of certain elements

#### ANALYSIS RESULTS

Date of test: 04/10/19

Category 3

Samples marked \* were sieved, those marked # were centrifuged. Details of additional acid required to lower pH and solvent used for extraction appear in [] in sample description.

Deviations from standard method: pH of conventional polymers and textiles not checked; samples only filtered if required to prevent ICP blockages.

Solid to acid extractant ratio exceeded 1:50 with sample weights below 100 mg and when additional acid was used to lower pH.

Quantities of soluble metals determined by inductively coupled plasma spectroscopy.

Test results marked ^ are within the area to which uncertainty of measurement applies & compliance/non-compliance cannot be inferred.

|           | Metals                               | AI                                                                                                         | Sb                                        | As                                             | Ва                              | В                                                    | Cd                   | Cr                                          | Со                                                   | Cu                              | Pb                              | Mn                              | Hg                       | Ni                              | Se                              | Sr                              | Sn                               | Zn                              |
|-----------|--------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------|---------------------------------|------------------------------------------------------|----------------------|---------------------------------------------|------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|
|           | Limits                               | 70000                                                                                                      | 560                                       | 47                                             | 18750                           | 15000                                                | 17                   | 460.053                                     | 130                                                  | 7700                            | 23                              | 15000                           | 94                       | 930                             | 460                             | 56000                           | 180000                           | 46000                           |
|           | Wt (Mg)                              |                                                                                                            |                                           |                                                |                                 |                                                      |                      |                                             |                                                      |                                 |                                 |                                 |                          |                                 |                                 |                                 |                                  |                                 |
| A B C D E | 214<br>212<br>202<br>223<br>END OF S | 3<br>4<br>3<br>2<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | < 0.05<br>< 0.05<br>< 0.05<br>< 0.05<br>< 0.05 | < 5<br>< 5<br>< 5<br>< 5<br>< 5 | <pre>&lt; 5 &lt; 5 &lt; 5 &lt; 5 &lt; 5 &lt; 5</pre> | <1<br><1<br><1<br><1 | 0.221<br>0.079<br>0.016<br>< 0.001<br>0.002 | <pre>&lt; 5 &lt; 5 &lt; 5 &lt; 5 &lt; 5 &lt; 5</pre> | < 5<br>< 5<br>< 5<br>< 5<br>< 5 | 1.0<br>0.9<br>0.6<br>0.3<br>0.3 | < 5<br>< 5<br>< 5<br>< 5<br>< 5 | < 1<br>< 1<br>< 1<br>< 1 | < 5<br>< 5<br>< 5<br>< 5<br>< 5 | < 5<br>< 5<br>< 5<br>< 5<br>< 5 | < 5<br>< 5<br>< 5<br>< 5<br>< 5 | < 1.0<br>< 1.0<br>< 1.0<br>< 1.0 | < 5<br>< 5<br>< 5<br>< 5<br>< 5 |

Prepared by G. S. Kirkland

S. Kinhland

Lab Ref: 39093006