

Report Nº:20020974

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Applicant: SARL COUSU BIO

LE BOURG

23150 MAZEIRAT - França

Invoicing applicant: SARL COUSU BIO

Sample Description: Knitted fabric

Color: -

Claimed Fibre Composition: -

Your Reference: #2 Flannel

Requirements: -

Sample Receiving Date: 20.02.2020

Test Start Date: 20.02.2020

Test End Date: 02.03.2020

Service Type: Normal

Working Days: 6

Observation: -



Trofa, 5 March 2020

Laboratory Manager

Note:

The results of this report were obtained according to the procedures described in Quality Lab's Quality Management Manual and refer only to the samples submitted to tests, as above mentioned. The Test Report cannot be reproduced except in full, without prior approval of the Laboratory. Tests marked with * are not included in the IPAC Accreditation and tests marked with * are not included in the scope of the accreditation and were carried out by external supplier. The opinion expressed in this report is not included in the scope of accreditation. *A*- Amended.
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Sample Information:

Sample ID	Description	Equivalent Code
001	Knitted fabric	#2 Flannel

Test	Sample ID
	001
NONYLPHENOETHOXYLATES (NPEO) AND OCTYLPHENOETHOXYLATES (OPEO)	P
NONYLPHENOL (NP) and OCTYLPHENOL (OP)	P
TOTAL CADMIUM	P
TOTAL LEAD	P
EXTRACTABLE HEAVY METALS FOR TEXTILES	P
DETERMINATION OF FORMALDEHYDE Part 1: Free and hydrolised formadehyde	P
PESTICIDES RESIDUES IN NATURAL FIBRES	P
DETERMINATION OF FABRIC PROPENSITY TO SURFACE FUZZING AND TO PILLING. Part 2: Modified Martindale method.	NR

Note: P= Meets Customer requirements; F= Does not meets Customer requirements; NR = No specified requirements;

In the assessment of conformity, the test uncertainty associated was not taken into account, unless otherwise indicated by the customer.

NONYLPHENOLETHOXYLATES (NPEO) AND OCTYLPHENOLETHOXYLATES (OPEO)

CPSD-AN-00735-MTHD/ EN ISO 18254*

Sample ID	Results		Requirement
001	NPEO	N.D	< 20 mg/kg
	OPEO	N.D	
Conclusion			Meets Customer requirements

Test Conditions:

ISO 18254-1 Textiles – Method for detection and determination of alkylphenol ethoxylates (APEO), Part 1: Method using HPLC-MS & GC-MS (CPSD-AN-00735-MTHD)

Notes:

- Detection Limit: Each (NPEO & OPEO) - 10; Sum (NPEO & OPEO) - 10
- N.D: Not detected

NONYLPHENOL (NP) and OCTYLPHENOL (OP)

House method - analysis by HPLC-MS*

Sample ID	Results		Requirement
001	NP	N.D	< 10 mg/kg
	OP	N.D	
Conclusion			Meets Customer requirements

Notes:

- Detection Limit: Each (NP&OP) - 10; Sum (NP&OP) - 10
- N.D: Not detected

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TOTAL CADMIUM

EC 1907-2006 (CPSD-AN-00004-MTHD)*

Sample ID	Result	Requirement
001	N.D	< 45 mg/kg
Conclusion		Meets Customer requirements

Test Conditions:

- Acid digestion and analyzed by Inductively Coupled Argon Plasma Mass Spectrometer

Notes:

- Detection Limit: 10 (mg/kg)

- N.D: Not detected

TOTAL LEAD

CPSD-AN-00164-MTHD*

Sample ID	Result	Requirement
001	< 10 mg/kg	< 50 mg/kg
Conclusion		Meets Customer requirements

Notes:

- Detection Limit: 10 mg/kg

- N.D: Not detected

EXTRACTABLE HEAVY METALS FOR TEXTILES

CPSD-AN-00063-MTHD*

Sample ID	Results		Requirement
001	Sb (Antimony)	N.D	< 0.2 mg/kg
	As (Arsenic)	N.D	
	Pb (Lead)	N.D	< 0.1 mg/kg
	Cd (Cadmium)	N.D	< 1.0 mg/kg
	Cr (Chromium)	N.D	
	Co (Cobalt)	N.D	< 25.0 mg/kg
	Cu (Copper)	N.D	< 0.2 mg/kg
	Ni (Nickel)	N.D	< 1.0 mg/kg
	Hg (Mercury)	N.D	< 0.02mg/kg
	Mn (Manganese)	N.D	< 0.25 mg/kg
Conclusion			Meets Customer requirements

Test Conditions:

- Extraction with artificial acidic perspiration, with reference to DIN EN ISO 105E04, for 1 hour at 37±2°C, detection with reference to DIN EN 1483:1997 & DIN EN ISO 11885:1998 with AAS or ICP
- N.D: Not detected
- Detection Limit (mg/kg): Pb&Cr&Co&Ni: 0.1, As&Cd: 0.02, Sb: 0.5, Cu: 5, Hg: 0.005, Mn: 0.25

DETERMINATION OF FORMALDEHYDE Part 1: Free and hydrolised formadehyde

ISO 14184-1:2011*

Sample ID	Results	Requirement
001	N.D	Max. 16 mg/kg
Conclusion		Meets Customer requirements

Notes:

- Detection Limit: 16 mg/kg
- N.D: Not detected

PESTICIDES RESIDUES IN NATURAL FIBRES

CPSD-AN-00097-MTHD*

Sample ID	Result	Requirement
001	Quinoline N.D	< 0.1 mg/kg
Conclusion		Meets Customer requirements

Notes:

- Detection Limit: 0.1 mg/kg
- N.D: Not detected

DETERMINATION OF FABRIC PROPENSITY TO SURFACE FUZZING AND TO PILLING.

Part 2: Modified Martindale method.

EN ISO 12945-2:2000

Sample ID	Number of Rubs	Superficial aspect	Results	Requirement
001	2000	Fuzzing and Pilling	1-2	No Requirements
			Conclusion	--

Test Conditions:

- Conditioning conditions: $20 \pm 2^\circ\text{C} / 65 \pm 4\%$ (H.R.)
- Without pre-wash
- Abrasive type: Woven
- Applied mass: 415 g
- Number of tests: 3
- Number of classifiers: 2
- Uncertainty for a probability of coverage of 95%: $\pm 0,5$

Notes:

INTERPRETATION:

- 5- No visual change;
- 4- Slight Surface Fuzzing;
- 3- Moderate Fuzzing / Isolated fully formed Pills;
- 2- Significant change: Distinct fuzzing and/ or pilling;
- 1- Severe Change: Dense fuzzing and/ or pilling which covers the specimen.

End of Report