

Laboratory

CURTUMES AVENEDA, LDA.
Lugar de Aveneda
S. Vicente Pereira
3880-836 S. VICENTE PEREIRA - OVAR

Test Report nr. 2021/00017

Version 2

Final Report

Material:	Leather	Received on:	20-11-2020
Sampling:	Unknown* (Sampled by: Client)	Beginning of testing:	23-11-2020
Sample Nr.:	2007345	Finish of testing:	05-01-2021
Client's Ref.:	Misket Azul Escura, ENS.7630		

Chemical Analysis Laboratory

Tests made / Method(s) of Testing	Results	Units
Total Metals		
Total aluminum (Al)*## ISO 17072-2:2019	38	mg/kg
Total antimony (Sb)*## ISO 17072-2:2019	< 5	mg/kg
Total arsenic (As)*## ISO 17072-2:2019	< 1	mg/kg
Total cadmium (Cd)*## ISO 17072-2:2019	< 0,1	mg/kg
Total lead (Pb)*## ISO 17072-2:2019	< 1	mg/kg
Total cobalt (Co)*## ISO 17072-2:2019	< 1	mg/kg
Total chromium (Cr)*## ISO 17072-2:2019	59	mg/kg
Total mercury (Hg)*## ISO 17072-2:2019	< 0,1	mg/kg
Total nickel (Ni)*## ISO 17072-2:2019	< 1	mg/kg
Total titanium (Ti)*## ISO 17072-2:2019	15	mg/kg
Total zirconium (Zr)*## ISO 17072-2:2019	< 5	mg/kg
Azo Dyes		
Azo Dyes *## ISO 17234-1:2015	Not detected a)	mg/kg
Chlorophenols		
Pentachlorophenol (PCP)*## ISO 17070:2015	< 1	mg/kg

The original of this testing report is only valid when validated with CTIC's white seal.

* - The signed test is not included in the CTIC certification scope. # - The signed test was subcontracted and it is certified. ## - The signed test was subcontracted and it is not certified. " < x (LQ) " : Result considered inferior to the quantification limit (x). " < x (LD) " : Result considered inferior to the detection limit (x).

The results contained in this report refer only to tests carried out on samples as received at the laboratory. Reproduction of this report, except in full, without prior authorization is prohibited.

CTIC - Centro Tecnológico das Indústrias do Couro
Apartado 158 - S. Pedro - 2384-909 Alcanena
Tel 249 889 190 - Fax 249 889 199 - email@ctic.pt

Laboratory

Test Report nr. 2021/00017

Version 2 Final Report

Chemical Analysis Laboratory

Tests made / Method(s) of Testing	Results	Units
Chlorinated Paraffins		
Short Chain Chlorinated Paraffins (C10-C13)*# ISO 18219:2016	< 500	mg/kg
Long Chain Chlorinated Paraffins *# ISO 18219:2015	< 1500	mg/kg
Medium Chain Chlorinated Paraffins (C14-C17)*# ISO 18219:2016	< 500	mg/kg
pH Value		
Difference Index ISO 4045:2018 - IULTCS/IUC 11:2018	0,85	---
pH Value ISO 4045:2018 - IULTCS/IUC 11:2018	3,15 (±0,10)	---
Hexavalent Chromium ISO 17075-1:2017 - IULTCS/IUC 18-1:2017	< 3	mg/kg
Disintegration degree * Método Interno (Baseado na ISO 20200)	100% after 15 dias	---
Formaldehyde ISO 17226-1:2008 - IULTCS/IUC 19-1:2008	< 5	mg/kg

Moisture: 13,1%

Conditioning*: According to ISO 4044:2017, part 6.3 for Hexavalent Chromium test, 6.2 for the rest.

Aromatic amines prohibited by REACH: 4-aminodifenilo (CAS: 92-67-1); Benzidina (CAS: 92-87-5); 2-amino-4-nitrotolueno (CAS: 99-55-8); 4-cloro-orto-toluidina (CAS: 5-69-2); 2-naftilamina (CAS: 91-59-8); 4-cloroanilina (CAS: 106-47-8); 4-metoxi-1,3-fenilendiamina (CAS: 615-05-4); 4,4'-diamiodifenilmetano (CAS: 101-77-9); 3,3'-diclorobenzidina (CAS: 91-94-1); 3,3'-dianisidina (CAS: 119-90-4); o-tolidina (CAS: 119-93-7); 4,4'-diamino-3,3'-dimetildifenilmetano (CAS: 838-88-0); p-cresidina (CAS: 120-71-8); 4,4'-diamino-3,3'-diclorodifenilmetano (CAS: 101-14-4); 4,4'-diaminodifenileter (CAS: 101-80-4); 4,4'-tiodianilina (CAS: 139-65-1); o-toluidina (CAS: 95-53-4); 2,4'-diaminotolueno (CAS: 95-80-7); 2,4,5'-trimetilaniлина (CAS: 137-17-7); o-aminoazotolueno (CAS: 97-56-3); o-anisidina (CAS: 90-04-0); 4-aminoazobenzeno (CAS: 60-09-3); 2,4-xilidina (CAS: 95-68-1); 2,6-xilidina (CAS: 87-62-7)

The expanded uncertainty, presented in parentheses, if applicable is equal to the combined standard uncertainty multiplied by an expansion factor K equal to 2, which, for a normal distribution, corresponds to a confidence level approximately equal to 95%. The calculation was made according to the following document: EURACHEM / CITAC GUIDE CG4. The uncertainty presented is related to the analytical stage.

Alcanena, January 5th, 2021

Chemical Analysis Laboratory Responsible



Dr. João Pinto Figueiredo

This Report is an addendum that supersedes and replaces Test Report nr. 2020/08003

The original of this testing report is only valid when validated with CTIC's white seal.

The results contained in this report refer only to tests carried out on samples as received at the laboratory. Reproduction of this report, except in full, without prior authorization is prohibited.

CTIC - Centro Tecnológico das Indústrias do Couro
Apartado 158 - S. Pedro - 2384-909 Alcanena
Tel 249 889 190 - Fax 249 889 199 - email@ctic.pt