Authenticae Ltd

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Schill+Seilacher

Schönaicher Str. 205,

71032 Böblingen,

Germany

Gunnar,

Final report BS EN 17072-2: 2019, BS EN ISO 23702: 2023, BS EN ISO 17226-1: 2021 – 24 VO 1L 01

The test commenced on 8/4/2024 and ended on 06/06/2024. The samples (pictured below) were submitted for analysis (beige leather only), as follows:

- Listed test metals (specified by BS EN 14995: 2006 and BS EN 13432: 2000)
- Listed test metals (specified by BS EN 15987: 2015)
- Total fluorine (measured using EN 14582: 2016, specified by BS EN 14995: 2006 and BS EN 13432: 2000)

Figure 1. Photograph of beige test piece submitted for testing.

Main telephone: ++44 1604 419 351
Mobile: ++44 78 413 917 41
www.authenticae.co.uk
Email: karl@authenticae.co.uk
Address: Unit 8, Grove Farm
Moulton
Northamptonshire, NN3 7TG,
United Kingdom
Company Number: 09265837
Directors: Inge Flowers MSc, MBA
Karl Flowers MSc, FSLTC

To meet the requirements of BS EN 14995* or BS EN 13432* for plastics/packaging; or modified methods to include leather/biomaterials; the material must be characterised through analysis for the metals substances (listed below in Table 1). Table 1 indicates whether the material can be characterised as containing substances that exceed the permitted levels for composting.

Table 2 is the listing of metals found in the leather that could exceed the permitted levels of metals permitted in a metal leather, as defined by BS EN 15987: 2015.

The results of this test screen has shown that the material can be characterised as:

Compliant to metal substance requirement BS EN 14995*/BS EN 13432 (Yes/No?)	Yes
Compliant to metal-free requirement of BS EN 15997 (Yes/No?)	Yes
Compliant to fluorine-free requirement of BS EN BS EN 14995*/BS EN 13432 (Yes/No?)	Yes

Table 3 shows the result of the measurement of total fluorine in leather, used to detect possible PFAS/PFC.

Many thanks

Karl Flowers, *Technical Director*

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Test Detail - Results

Table 1: Permitted Levels of Metal in the BS EN 14995*/BS EN 13432*

Substance	Permitted level (ppm)	Sample 1 (ppm-dry)	Pass/Fail
Arsenic (As)	5	<0.1	Pass
Cadmium (Cd)	0.5	<0.1	Pass
Chromium (Cr)	50	3.5	Pass
Copper (Cu)	50	6.6	Pass
Mercury (Hg)	0.5	<0.1	Pass
Molybdenum (Mo)	1	<1.0	Pa
Lead (Pb)	50	0.11	Pass
Nickel (Ni)	25	<0.1	Pass
Selenium (Se)	0.75	<0.1	Pass
Zinc (Zn)	150	46	Pass

Table 2: Permitted Levels of Metal in the BS EN 15987: 2015

Substance	Permitted level (ppm)	Sample 1 (ppm-dry)	Pass/Fail
Aluminium (Al)	1000	44	Pass
Chromium (Cr)	1000	3.5	Pass
Titanium (Ti)	1000	1.5	Pass
Iron (Fe)	50	29	Pass
Zirconium (Zr)	0.5	0.14	Pass

Table 3: Permitted Level of Total Fluorine in theBS EN 14995*/BS EN 13432*

Substance	Permitted level (ppm)	Sample 1 (ppm-dry)	Pass/Fail
Total F	100	<0.1	Pass

* Levels prescribed by BS EN 14995 (normal and modified) and BS EN 13432 (normal and modified)