

Date 15/12/2020

Test report AN04556-20/1

GKC CHEMICALS S.r.l.

Dear GKC CHEMICALS S.r.l.
Registered office
Via C. Colombo, 37
56029, Santa Croce sull'Arno (PI)

1. Sample data

Name:	SENZA TINTURA	Requested by:	-
Sample Code:	AN04556-20/1	Received on:	07/12/2020
Sample:	LEATHER	Color:	-
		Lot:	-

2. Sampling data

Place:	Via C. Colombo, 37, 56029, Santa Croce sull'Arno (PI)		
Sampling:	-	Picked up:	
Sampled by:	Customer		
Mode:	SAMPLED BY THE CUSTOMER FROM UNIDENTIFIED ZONE		

3. Start date: 11/12/2020 - End date: 14/12/2020

4. Notes on the sample

5. Sample image



Dott. Sandra Miniati – Laboratory manager

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6.

LABORATORY ANALYSIS RESULTS				
PARAMETER	Result	Quantification limit	U.M.	Analysis method
Formaldehyde	180	3	mg/kg	UNI EN ISO 17226-1:2019
Determination of Total Heavy Metals				
Aluminium (Al)	64	1	mg/kg	ISO 17072-2:2019
Tot. Chromium (Cr)	18,6	1	mg/kg	ISO 17072-2:2019
Iron (Fe)	90	1	mg/kg	ISO 17072-2:2019
Titanium (Ti)	3,1	1	mg/kg	ISO 17072-2:2019
Zirconium (Zr)	< LQ	1	mg/kg	ISO 17072-2:2019
Sum of tanning metals	175,7	-	mg/kg	ISO 17072-2:2019
Volatile matter	9,08	5	% (p/p)	*UNI EN ISO 4684:2006

According to the ISO 17072-2:2019, metals determination is executed by ICP-MS after microwave acid digestion of samplers. Results are expressed by total dry weight of leather. According to the UNI EN 15987:2015, the analyzed sample can be described as "METAL- FREE LEATHER".

"METAL-FREE LEATHER: Sum of tanned metals (Cr, Al, Ti, Zr, Fe) less than or equal to 0.1% (metals mass / total dry weight of leather)."

Formaldehyde analysis was performed following UNI EN ISO 17226-1:2019 by HPLC equipped with DAD detector at 355±5 nm wave length; its recovery rate was 87,6 %. Data not used in the expression of analytical results.

7. Reviews and Interpretations (not accredited by ACCREDIA)

8. Warnings and legends

Partial reproduction of this test report is only permitted with the prior approval of ARS TINCTORIA SRL. The data in this Test Report refer only to the sample being tested. The raw data and the instrumental tracks are kept by the lab for 10 years. The residual sample is stored by the laboratory for 2 months from the date of the Test Report unless otherwise indicated and the quantity and nature of the original sample allow it. The sample has been submitted to the laboratory as evidence, unless otherwise indicated. If not indicated in the Test Report, the measurement uncertainty data for each test is available on request.

LQ = Method Quantification Limit; U = Extended uncertainty of the test expressed by the same unit of measurement of the result and calculated with a coverage factor $k = 2$ corresponding to a probability level of about 95% or as a confidence interval calculated at a probability level of about 95%; U.M. = Unit of Measure.

(*) Unrecognized test by ACCREDIA

Dott. Sandra Miniati – Laboratory manager