



CERTOTTICA

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Rep.no. 231885

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TEST REPORT

Client:	Original Vintage Sunglasses
Address:	Via Elvira Notari, 16 - 80147 Napoli NA
Article:	Spectacle frames
Model: ^(a)	URBAN UN04
Job no.:	C230528
Report no.:	231885
Receiving Date:	09/03/2023
Date of Test Begin:	27/03/2023
Date of Test End:	29/03/2023
Issuing Date:	31/03/2023
Reference Norm:	EN 16128:2015 - Reference method for the testing of spectacle frames and sunglasses for nickel release.

(a) Information provided by the customer.

Note 1: This test report is valid only for the tested samples and any changes can be made only with the issuance of a new test report.

Note 2: The partial reproduction of this test report is forbidden without written permission of Certottica.

Note 3: The tests were performed on samples as received by client.

Note 4: This test report is an official document digitally signed according to the current Italian law.

Note 5: If not otherwise stated, the declared uncertainty must be intended as extended uncertainty with a 95% confidence level and a cover factor $k = 2$.



LAB N°0931 L

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual Recognition Agreements



Simulation of wear and corrosion

Clause 6 of standard EN16128:2015.

Specifications

The following describes a method for accelerated wear and corrosion to be used before the to organic coating test or/and nickel release from coated items. All the parts of the samples were identified and exposed to a corrosive atmosphere. They have been suspended a few centimetres above the corrosive medium (DL-lactic acid, sodium chloride and deionized water) in a closed container and placed in the laboratory oven for 2 hours at $50\text{ °C} \pm 2\text{ °C}$. After this time, the items have been rinsed with deionized water and have been dried for about 1 hour at room temperature. Following the items have been placed into tumbling barrel together with a wear medium of abrasive paste and coconuts granules. The barrel has been rotated at a speed of 30 ± 2 rotations per minute for a total of 5 hours ± 5 minutes. The direction of the rotation has been reversed after 2.5 hours ± 5 minutes.

Coating test

Clause 7 of standard EN16128:2015.

Sample treatment

The parts (or areas) to be tested were selected and separated by cutting or dismantling. The electrical contact (for temples: the joint or the tip; for the fronts: the joint end of the lug that is not masked) was created removing the organic coating with emery paper or hand-held rotary model-making tool. The remaining parts (pad arms and boxes; lugs and joints; solders; temples ends if tips was cutted off) were masked as described on Annex A of standard EN16128:2015. Reference electrode, counter electrode and test items (working electrode) were connected by electrical clamps to the Potentiostat and then immersed into the saline solution 1% at $25\text{ °C} \pm 5\text{ °C}$ for 3 minutes. The electro-chemical cell (reference, working, counter electrodes and saline solution) was placed into the Faraday cage and the impedance (EIS) was measured. Immediately after the test, tested items were rinsed thoroughly with deionized water.

Results

The performed control has given the following results:

Test sample	Tested part	Sample code	Area ¹ [cm ²]	Impedance per unit area [$\Omega \cdot \text{cm}^2$]	Result
First test sample	Right side	ORA 1	1.74	1.11×10^6	Pass
	Left side		1.74	8.81×10^5	Pass
	Front		13.7	2.01×10^6	Pass
Second test sample	Right side	ORA 2	1.74	1.76×10^6	Pass
	Left side		1.74	6.87×10^5	Pass
	Front		13.7	3.43×10^6	Pass

Overall test result : Pass

The impedance value shall be greater than or equal to $3.0 \times 10^5 \Omega \cdot \text{cm}^2$, as reported in paragraph 7.6.2 of the EN 16128:2015.²

1. The test area is the external surface of the portion of item tested.
2. A pass result indicates compliance with the migration limits specified in paragraph 1(b) and (c) of entry 27 of Annex XVII to the REACH. Therefore, a failed model could demonstrate conformity with the regulatory limit by submission to the migration test.



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(a) Sample picture



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END OF TEST REPORT