



# CERTOTTICA

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SEZ. R 22

Organismo Notificato UE n. 0530 - Autorizzato dal Ministero dell'Industria, del Commercio e dell'Artigianato e dal Ministero del Lavoro e della Previdenza sociale con D.L. 10/01/95

<b>Client:</b>	<b>LIW LEWANT Spólka z.o.o</b>
	<b>58-260 BIELAWA, ul. Ostroszowicka 17B</b>

<b>Producer</b>	///
<b>Product</b>	<b>Frame</b>
<b>Model</b>	///
<b>Materials</b>	///
<b>Galvanic treatments</b>	///
<b>Varnish</b>	///
<b>Colour</b>	<b>Antique Rose</b>

<b>TEST REPORT Nr.:</b>	<b>052389</b>	<b>Test Report date:</b>	<b>19/09/2005</b>
<b>Job nr.:</b>	<b>C5529</b>	<b>Samples received on:</b>	<b>01/09/2005</b>
<b>Test began on:</b>	<b>07/09/2005</b>	<b>Test was completed on:</b>	<b>16/09/2005</b>
<b>Reference Standard:</b>	<b>ENV 14027, EN 1811</b>		

<b>Responsible for testing:</b>	<b>Date:</b>	<b>19/09/2005</b>
<b>Dr. Giorgio Sommariva</b>		

Note 1: This Test Report is only concerned with the effectively tested samples; any change to the present Report shall be made through a new test report.

Note 2: Partial reproduction of the present Test Report shall be allowed in writing by Certottica.

**Reference standard: ENV 14027, EN 1811.**

Sample code	Volume of test solution (cm <sup>3</sup> )	Area <sup>i</sup> (cm <sup>2</sup> )	Nickel release $d_n$ <sup>ii</sup> (µg/cm <sup>2</sup> /week)	R.
<b>Temple</b>				
LWC 1	3.69	3.75	0.04	
LWC 2	3.69	3.75	0.03	
LWC 3	3.69	3.75	0.01	
LWC 4	3.69	3.75	0.04	
<b>Rim</b>				
LWC 5	1.59	1.36	0.00	
LWC 6	1.59	1.36	0.01	
LWC 7	1.59	1.36	0.04	
LWC 8	1.59	1.36	0.01	
<b>Bridge</b>				
LWC 9	1.60	1.10	0.07	
LWC 0	1.60	1.10	0.04	

Tested Item	Upper threshold (µg/cm <sup>2</sup> /week)	Ni release $D$ <sup>iii</sup> (µg/cm <sup>2</sup> /week)	Adjusted Ni release $D^j$ <sup>iv</sup> (µg/cm <sup>2</sup> /week)	Result
<b>Temple</b>	<b>0.50</b>	<b>0.03</b>	<b>0.00</b>	<b>Pass</b>
<b>Rim</b>		<b>0.02</b>	<b>0.00</b>	<b>Pass</b>
<b>Bridge</b>		<b>0.06</b>	<b>0.01</b>	<b>Pass</b>

<b>Over All Test Result:</b>	<b>Pass</b>
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<sup>i</sup> The test area is the external surface of that portion of item tested.

<sup>ii</sup>  $d_n$  is the value determined through the following equation:  $d_n = \frac{(C_1 - C_2) \times V}{a \times 1000}$

where:

$a$  is the sample area of the test object, in square centimetres (cm<sup>2</sup>);

$V$  is the dilution volume of the sample test solution, in millilitres (ml);

$C_n$  is the nickel concentration in the diluted test solution after one week, in micrograms per litre (µg/l);

$C_b$  is the mean value of nickel concentration in the blank solution after one week, in micrograms per litre (µg/l);

<sup>iii</sup>  $D$  is the value of nickel release not adjusted

<sup>iv</sup>  $D^j$  is the value adjusted analytical figure of nickel release determined through the following equation:  $D = \frac{\sum_{i=1}^n (0.1 \times d_n)}{n}$  the processing of the

average has been necessary owing to mistakes introduced during the determination of the surface, during the masking of the insignificant surface and owing to method reproducibility/repetition variation (annex A and D En 1811).