

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 $d_n^{ii}$ (µg/cm <sup>2</sup> /week)	R.
<b>Temple</b>				
LWB 1	3.68	3.75	0.04	
LWB 2	3.68	3.75	0.03	
LWB 3	3.68	3.75	0.03	
LWB 4	3.68	3.75	0.03	
<b>Rim</b>				
LWB 5	1.59	1.32	0.00	
LWB 6	1.59	1.32	0.02	
LWB 7	1.59	1.32	0.02	
LWB 8	1.59	1.32	0.01	
<b>Bridge</b>				
LWB 9	1.59	1.37	0.05	
LWB 0	1.59	1.37	0.07	

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

<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>  $D'$  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).

