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NEW FULL NICKEL RELEASE TESTING (BAO Method 20A)

Ref: 253044	Date work reported: 12 March 2019	Batch No. 984F
Page: 1 of 2	Date work received: 27 February 2019	

Method:	Sample(s) & their components listed below have been tested according to procedures based on BS EN 12472:2005 + A1:2009 and BS EN1811:2011+ A1:2015 – ‘Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin’ (BAO Method 20C). Wherever practical, product(s) have been disassembled into their component parts and the nickel release determined for each component. No parts of the product have been ‘masked off’ during the test, unless specifically instructed by the Customer.
Results: Units:	Results relate only to the specific materials tested. Nickel released in micrograms per square centimetre per week.
Compliant or Non-Compliant criteria:	<p>For actual <u>items</u> intended to come into direct and prolonged contact with the skin which need to comply with the 0.5 µg/cm²/week limit (Ref Annex A of BS EN1811:2011+A1:2015) - (Based on combined measurement of uncertainty value of 46%):</p> <p>Non-Compliant when nickel release is $\geq 0.88 \mu\text{g}/\text{cm}^2/\text{week}$</p> <p>Compliant when nickel release is $< 0.88 \mu\text{g}/\text{cm}^2/\text{week}$.</p> <p>For all <u>post assemblies</u> which are inserted into pierced parts of the human body, the post assembly needs to comply with the 0.2 µg/cm²/week limit (Ref Annex A of BS EN1811:2011+ A1:2015) - (Based on combined measurement of uncertainty value of 46%):</p> <p>Non-Compliant when nickel release is $\geq 0.35 \mu\text{g}/\text{cm}^2/\text{week}$.</p> <p>Compliant when nickel release is $< 0.35 \mu\text{g}/\text{cm}^2/\text{week}$.</p> <p>Note: Sample components marked as ‘compliant’ will comply with the requirements of entry 27 of Annexe XVII (REACH) with respect to Nickel Release.</p>

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This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF communiqué dated April 2017). Note: The information contained in this report is given in good faith on the basis of samples and information received. Assay Office Birmingham does not take responsibility for the Customer’s interpretation of the report nor any consequence arising from this. This test report shall not be reproduced except in full, without written approval of Assay Office Birmingham. Our standard conditions and tolerances apply. Opinions and Interpretations are outside the scope of accreditation.



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Ref: 253044	Date work reported: 12 March 2019	Batch No. 984F
Page: 2 of 2	Date work received: 27 February 2019	

Compo. Ref. (BAO)	Customer Ref. / Item Description	Component Description	Ni Release (μg /cm ² / Week)	Compliant (C) / Noncompliant (NC)
4	Titanium	Titanium bar	<0.35	C
5	Steel	Steel bar	<0.35	C

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