

Test Report No. 2776878

Date : 26-Aug-2014

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Client : *[Redacted]*  
*[Redacted]*  
*[Redacted]*

The following sample(s) was/were submitted and identified by client as:

Sample Description : Titanium Grade23  
Sample No. : 2854050  
Sample Condition : Sample is contained in a plastic bag.  
Quantity Submitted : 20 pcs  
Part No. : Basic  
Batch/Lot No. : NIL  
Manufacturer/Vendor : *[Redacted]*  
Country of Origin : Thailand  
Country of Destination : Thailand  
Buyer's Name : Common  
Sample Receiving Date : 14-Aug-2014  
Testing Period : 14-Aug-2014 to 26-Aug-2014

Test Method & Results : Please refer to next page(s).

Signed for and on behalf of  
SGS Limited



Rutchuporn Mounksom  
Laboratory manager - Toy and Hardgood

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**TEST RESULTS**

**Nickel Release (With Coated Material) (REACH)**

Test Method : Simulation of wear and corrosion - EN 12472: 2005 + A1: 2009, followed by extraction - BS EN 1811 : 2011 + AC : 2012. Analysis was performed by ICP-OES.

**For non-body piercing article**

Test item	Sample Area (cm <sup>2</sup> )	Volume of Test Solution (ml)	Nickel Release Trial 1 (ug/cm <sup>2</sup> /week)	Nickel Release Trial 2 (ug/cm <sup>2</sup> /week)	Nickel Release Trial 3 (ug/cm <sup>2</sup> /week)	Limit (ug/cm <sup>2</sup> /week)	Comment
1	0.89	5	<0.1	<0.1	<0.1	0.5	PASS

Sample Description :

- 1. Metal

Note :

- 1. microgram/ cm<sup>2</sup>/ week = microgram per square centimeter per week
- 2. "<" = Less than
- 3. LOQ = Limit of Quantitation = 0.1 ug/cm<sup>2</sup>/week
- 4. Limit specified by entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 94/27/EC and 2004/96/EC)

Comments are given according to Annex A of BS EN 1811 : 2011 + AC : 2012 as below.

Type of sample	Nickel Release (ug/cm <sup>2</sup> /week) (PASS)	Nickel Release (ug/cm <sup>2</sup> /week) (NO CLEAR DECISION*)	Nickel Release (ug/cm <sup>2</sup> /week) (FAIL)
Article with Nickel release limit of 0.5 ug/cm <sup>2</sup> /week	</=0.28	>0.28 AND <0.88	>/=0.88
Article with Nickel release limit of 0.2 ug/cm <sup>2</sup> /week	</=0.11	>0.11 AND <0.35	>/=0.35

\* = No clear decision = Inconclusive

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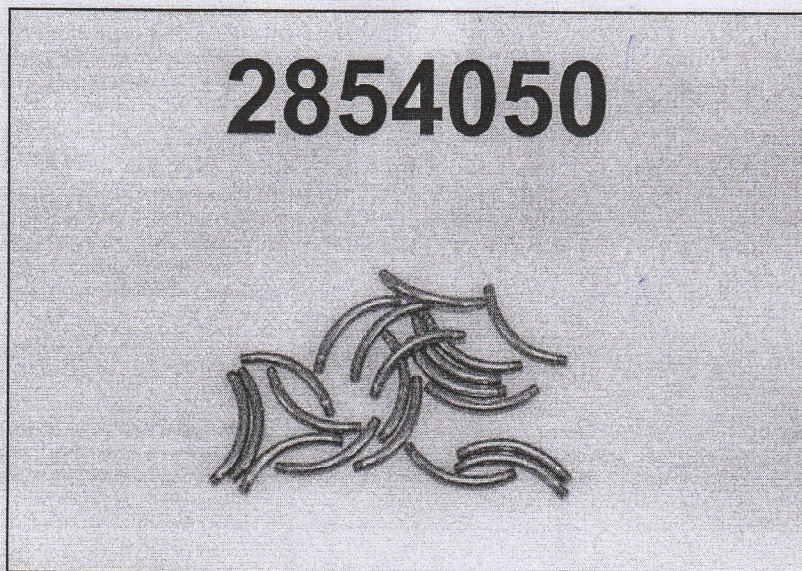
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SAMPLE/ATTACHMENT PICTURE



\*\*\*\*\* End of Report \*\*\*\*\*

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