

# Test Report

No. F690101/LF-CTSAYHA20-10983

Issued Date: 2020. 08. 26

Page 1 of 3

**SALAMANDER JEWELRY CO., LTD.**

128/1 Moo 7, Soi wat Nakhon, Chuenchum

Phutthamonthon sai 4 road, Tambon kratumlom ampur sampran

Nakhon pathom 73220, Thailand

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

<b>SGS File No.</b>	: AYHA20-10983
<b>Sample Description</b>	: BKTCB-PIN-1.6-10.0
<b>Style no./Item no.</b>	: -
<b>Order No.</b>	: -
<b>Buyer</b>	: -
<b>Manufacturer</b>	: -
<b>Country of Origin</b>	: -
<b>Country of Destination</b>	: -
<b>Received Date</b>	: 2020. 08. 14
<b>Test Period</b>	: 2020. 08. 14 to 2020. 08. 26
<b>Test Method</b>	: For further details, please refer to following page (s)
<b>Test Results</b>	: For further details, please refer to following page (s)
<b>Report Comments</b>	: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report is not related to Korea Laboratory Accreditation Scheme.
<b>Result Summary</b>	:

Test Requested	Conclusion
To determine the Rate of Ni Release for compliance with entries 27 of European regulation (EC) No. 1907/2006 (REACH) Annex XVII and Regulation (EC) No. 552/2009 (previously restricted under Directive 94/27/EC and 2004/96/EC)	PASS

SGS Korea Co., Ltd.



Tommy Oh / Chemical Lab Mgr

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for Electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com/en/terms-and-conditions/terms-e-document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

**Results :**

**Nickel Release**

Test Method: EN 1811:2011+A1:2015. Analysis was performed by ICP-OES.  
(Simulation of wear and corrosion – EN 12472:2005+A1:2009 is applied for non-nickel containing coated component)

Test item	Sample Area (cm <sup>2</sup> )	Volume of Test Solution (mL)	Nickel Release (µg/cm <sup>2</sup> /week)	Conclusion
			<u>1</u>	
1	1.28	10.00	N.D.	<b>PASS</b>

**Sample Description :**

1. Black PVD coated titanium pin

- Note:
1. µg/cm<sup>2</sup>/week = microgram per square centimeter per week
  2. N.D. = Not detected
  3. Detection Limit = 0.10 µg/cm<sup>2</sup>/week
  4. Test was conducted in one trial as per client's request.
  5. Recommend Max. Limit:
    - Non-body piercing article    0.5 µg/cm<sup>2</sup>/week
    - Body piercing article        0.2 µg/cm<sup>2</sup>/week

Remark: 1. 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).  
2. According to the Commission Communication 2016/C 014/04, published in the OJEU, the EN 1811:2011+A1:2015 is adopted as the harmonized standards under entry 27 of Annex XVII to REACH starting from 15 January 2016.

Comments are given according to Annex A of EN 1811:2011+ A1:2015 as below:

Type of sample	Nickel Release (µg/cm <sup>2</sup> /week)	
	PASS	FAIL
Non-body piercing article with Nickel release limit of 0.5µg/cm <sup>2</sup> /week	< 0.88	≥ 0.88
Body piercing article with Nickel release limit of 0.2µg/cm <sup>2</sup> /week	< 0.35	≥ 0.35

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com/en/terms-and-conditions/terms-e-document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).

Picture of Sample as Received :

**AYHA20-10983**

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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <https://www.sgs.com/en/terms-and-conditions/terms-e-document>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s).