

**Report No.:** 242120615-01

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**Client:** KWAHM SUMPAN CO.,LTD.

**Contact Information:** 55/1-4 Moo 7,  
Bangkruay Sai Noi Road,  
Bangkruay, Bangkruay, Nonthaburi 11130

**Identification/** STS-2774

**Model No(s):** 544-972

**Sample Receiving date:** 2020-04-27

**Testing Period:** 2020 04-27 to 2020-05-11

**Delivery condition:** Apparent good, Samples tested as received

**Test Specification:**

1. Total Lead Content
2. Total Cadmium Content
3. Ni release (EN 12472:2005 & EN 1811: 2011+ A1:2015)
4. Silver Content ; XRF Screening test

**Test result:**

PASS

PASS

PASS

Refer to result page

**Other information:**

Manufacture: KWAHM SUMPAN CO.,LTD

Country of Origin: THAILAND

For and on behalf of  
TÜV Rheinland Thailand Ltd.



2020-05-11

Wilawan Sriprom / Manager

Date

Name/Position

*Test result is drawn according to the kind and extent of tests performed.*

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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**Material List:**
Item: STS-2774  
544-972

| Material No. | Material | Color                     | Location        |
|--------------|----------|---------------------------|-----------------|
| M001         | Silver   | Silver with silver plated | Frame+Butterfly |
| M002         | Silver   | Silver with silver plated | Pin             |

**1. Total Lead Content**
Test Method: (Metal materials) CPSC Test Method: US CPSC-CH-E1001-08.3:2012 Standard  
Operating Procedure for Determinating total Lead (Pb) in Children's Metal Products  
(Including Children's Metal Jewelry)
**Test result**

| Test No. | Material No. | Test Parameter | Unit  | RL | Customer's Requirement | Test Result |
|----------|--------------|----------------|-------|----|------------------------|-------------|
| T001     | M001 + M002  | Total Lead     | mg/kg | 2  | 90                     | n.d.        |

**Abbreviation:** n.d. denotes Not Detected (<RL)  
RL denotes Reporting Limit  
mg/kg denotes Milligram per kilogram

**2. Total Cadmium Content**
Test Method: Acid digestion based on EPA 3050B:1996 (Modified) / EPA 3052:1996 (Modified).  
Analysis was performed by ICP-MS.
**Test Result:**

| Test No. | Material No. | Test Parameter | Unit  | RL | Customer's Requirement | Test Result |
|----------|--------------|----------------|-------|----|------------------------|-------------|
| T001     | M001 + M002  | Total Cadmium  | mg/kg | 2  | 40                     | n.d.        |

**Abbreviation:** n.d.denotes Not Detected (<RL)  
RLdenotes Reporting Limit  
mg/kgdenotes Milligram per kilogram

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### 3. Nickel release

Test Method: Nickel - According to EN 12472:2005 + A1:2009 & EN 1811:2011+ A1:2015  
The tests have been performed in succession.

#### Test Result :

| Test No. | Material No. | Trial | Nickel released (µg/cm <sup>2</sup> /week) | RL (µg/cm <sup>2</sup> /week) | Customer's Requirement (µg/cm <sup>2</sup> /week) |
|----------|--------------|-------|--|-------------------------------|---|
| T001     | M001         | 1     | n.d.                                       | 0.05                          | 0.28  |
|          |              | 2     | n.d.                                       | 0.05                          |   |
|          |              | 3     | n.d.                                       | 0.05                          |   |
| T002     | M002         | 1     | n.d.                                       | 0.05                          | 0.11  |
|          |              | 2     | n.d.                                       | 0.05                          |   |
|          |              | 3     | n.d.                                       | 0.05                          |   |

**Abbreviation:** n.d. denotes Not detected

RL denotes Reporting Limit

µg/cm<sup>2</sup>/ week denotes Microgram per square centimeter per week

### 4. Silver content

Test Method: In-House Method, determination by ED-XRF.

#### Test result

| Test No. | Material No. | Test Parameter | Unit | RL    | Test Result |
|----------|--------------|----------------|------|-------|-------------|
| T001     | M001 + M002  | Silver Content | %    | 0.005 | 93.80       |

**Abbreviation:** < = less than

RL = Reporting Limit

% = Percentage by weight (1 % = 10,000 mg/Kg)

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**Sample Photo**



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