



Test Report

No. : CE/2016/A3463

Date : 2016/10/26

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SUZUKI CO., LTD.
3500-8 Mushiokuri, Hitaki, Suzaka, Nagano, 382-0011 Japan

CE/2016/A3463

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

Sample Submitted By : SUZUKI CO., LTD.
Sample Description : Gold plating film
Style/Item No. : Gold
Sample Receiving Date : 2016/10/19
Testing Period : 2016/10/19 TO 2016/10/26

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Test Requested : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.

Test Method : Please refer to next pages.

Test Result(s) : Please refer to next page(s).

Conclusion : Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI) comply with the limits as set by RoHS Directive 2011/65/EU Annex II.


Troy Chang, Manager, Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Result(s)

PART NAME No.1 : PLATING LAYER OF COPPER COLORED METAL

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	
Cadmium (Cd)	mg/kg	IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	IEC 62321-5 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	IEC 62321-4 (2013) application of modified digestion by surface etching and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)(#2)	µg/cm ²	With reference to IEC 62321-7-1 (2015) and performed by UV-VIS.	0.10	n.d.	-

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated
5. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm².
The sample coating is considered to contain Cr(VI)
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm²).
The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

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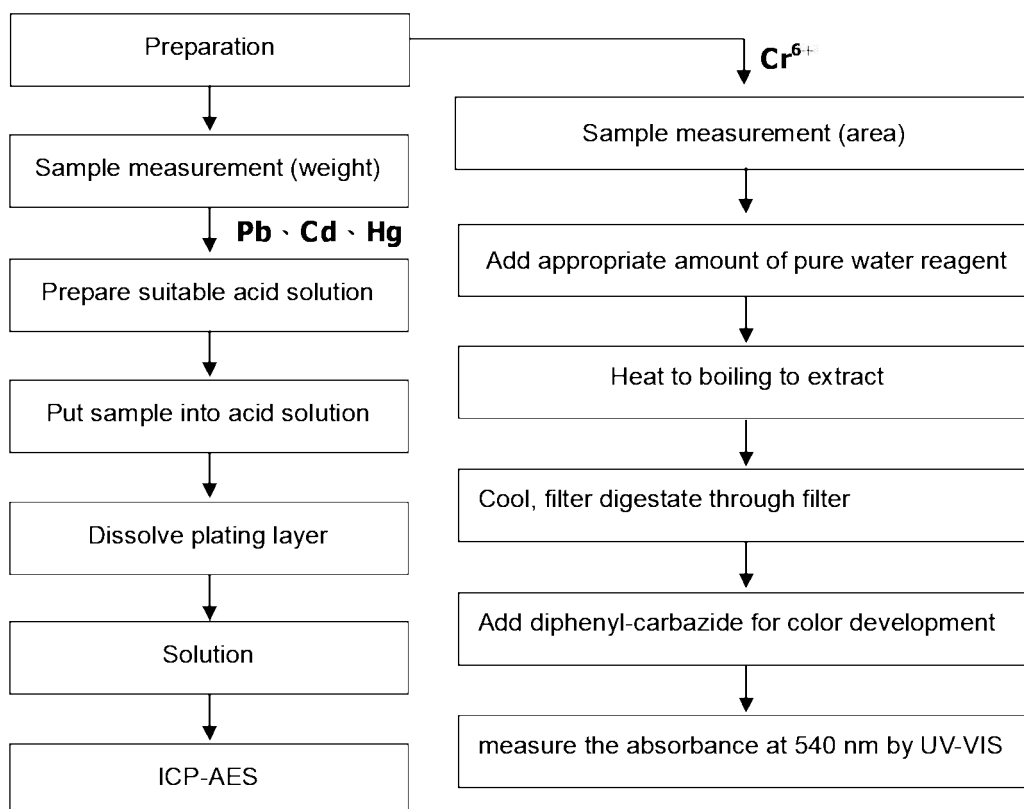
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The plating layer of samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)

- Technician: JR Wang
- Supervisor: Troy Chang

Flow Chart of Stripping method for metal analysis



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***The tested sample /part is marked by an arrow if it's shown on the photo. ***

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**** End of Report ****

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