

Test Report

No. : CE/2011/34871

Date : 2011/3/25

Page : 1 of 4



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

Sample Description :
Sample Receiving Date : 2011/03/18
Testing Period : 2011/03/18 TO 2011/03/25

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :
(1) With reference to IEC 62321: 2008. Determination of Cadmium by ICP-AES.
(2) With reference to IEC 62321: 2008. Determination of Lead by ICP-AES.
(3) With reference to IEC 62321: 2008. Determination of Mercury by ICP-AES.
(4) With reference to IEC 62321: 2008. Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.
(5) With reference to BS EN ISO 3613:2001 for Hexavalent Chromium. Analysis was performed by UV-VIS Spectrometry.

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

Conclusion : Based upon the performed tests by submitted samples, the test results of Cadmium, Lead, Mercury and Hexavalent Chromium Cr(VI) **comply with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.


Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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Test Report

No. : CE/2011/34871

Date : 2011/3/25

Page : 2 of 4



Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result	MDL	RoHS Limit
		No.1		
Cadmium (Cd)	(1)	n.d.	2	100
Lead (Pb)	(2)	n.d.	2	1000
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4	#
Hexavalent Chromium Cr(VI)	(5)	n.d.	- (See Note 6)	1000

TEST PART DESCRIPTION:

No.1 : SILVER COLORED METAL

Note :

1. mg/kg = ppm : 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. Spot-test;

Negative = Absence of Cr(VI) coating / surface layer,
Positive = Presence of Cr(VI) coating / surface layer;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer.
Positive = Presence of Cr(VI) coating / surface layer;
The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

5. # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as not comply with RoHS requirement.

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as comply with RoHS requirement.

6. Method Detection Limit = 0.02 $\mu\text{g}/\text{cm}^2$:

Based upon the customer's requirement, the unit of the test result was conversed into mg/kg.

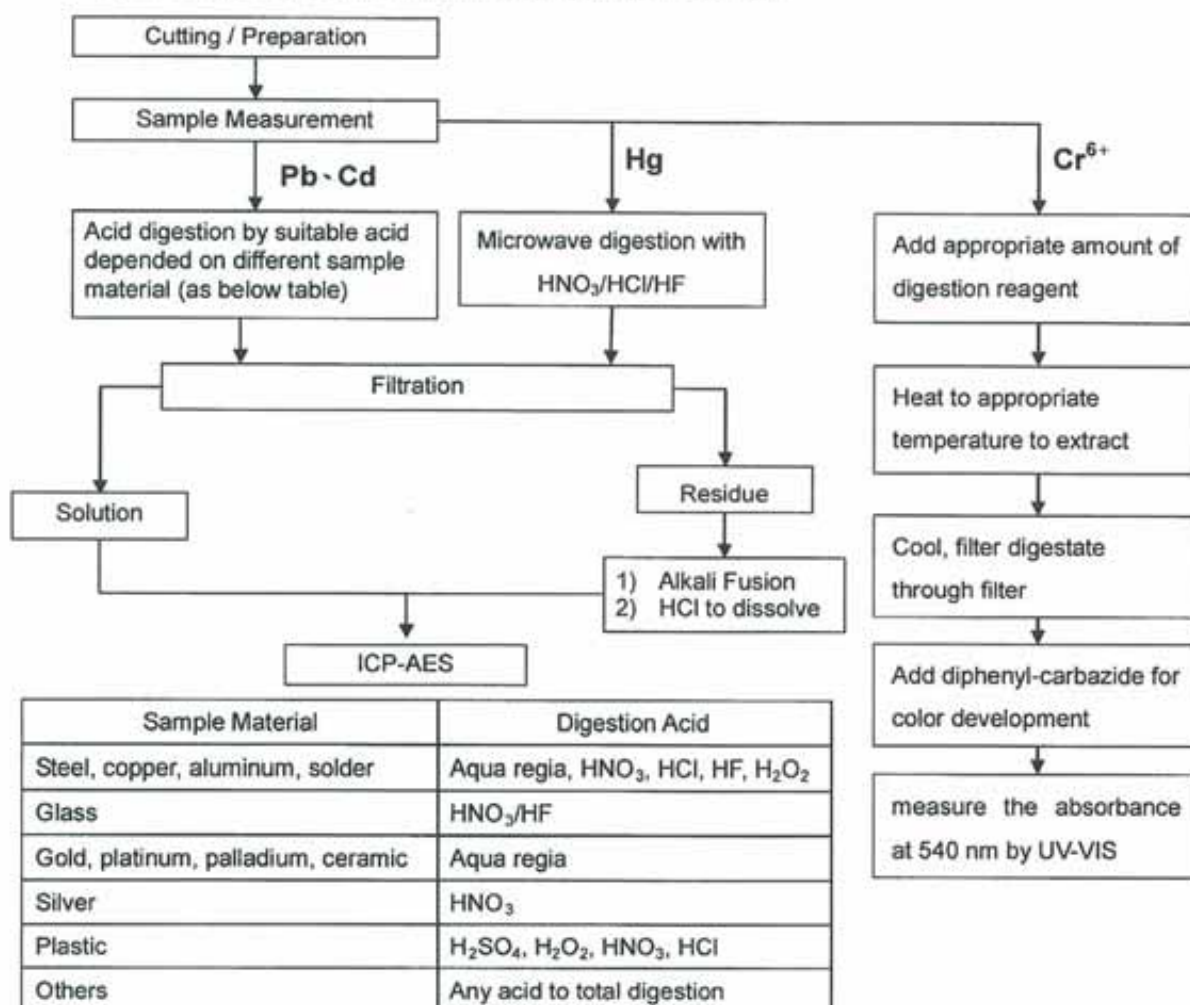
- 7 " - " = Not Regulated

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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



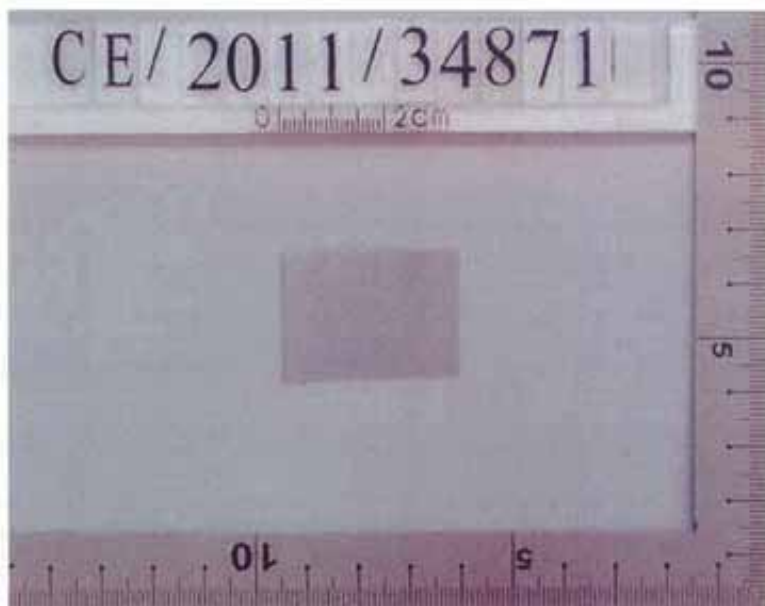
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Test Report

No. : CE/2011/34871

Date : 2011/3/25

Page : 4 of 4



** End of Report **

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