

Test Report

No. : CE/2010/A2199

Date : 2010/10/20

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XIAN YI PRECISION CO., LTD.
17F. -1 , NO. 1249, JHONGJHENG RD., TAOYUAN CITY, TAOYUAN COUNTY
330, TAIWAN



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

Sample Description : BRASS
Style/Item No. : A – SERIES, B – SERIES, C – SERIES, D – SERIES, E – SERIES, F – SERIES, H – SERIES, J – SERIES, K – SERIES, M – SERIES, N – SERIES, P – SERIES, R – SERIES, S – SERIES, T – SERIES, U – SERIES, V – SERIES, W – SERIES, Y – SERIES, Z – SERIES, GA – SERIES, GB – SERIES, GC – SERIES, GD – SERIES, GE – SERIES, GF – SERIES, GH – SERIES, GJ – SERIES, GK – SERIES, GM – SERIES, GN – SERIES, GP – SERIES, GR – SERIES, GS – SERIES, GT – SERIES, GU – SERIES, GV – SERIES, GW – SERIES, GY – SERIES, GZ – SERIES
Sample Receiving Date : 2010/10/13
Testing Period : 2010/10/13 TO 2010/10/20

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

Test Method : With reference to IEC 62321: 2008
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
(1) Determination of Cadmium by ICP-AES.
(2) Determination of Lead by ICP-AES.
(3) Determination of Mercury by ICP-AES.
(4) Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.

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



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

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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	15	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4

TEST PART DESCRIPTION:

No.1 : BRASS 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.

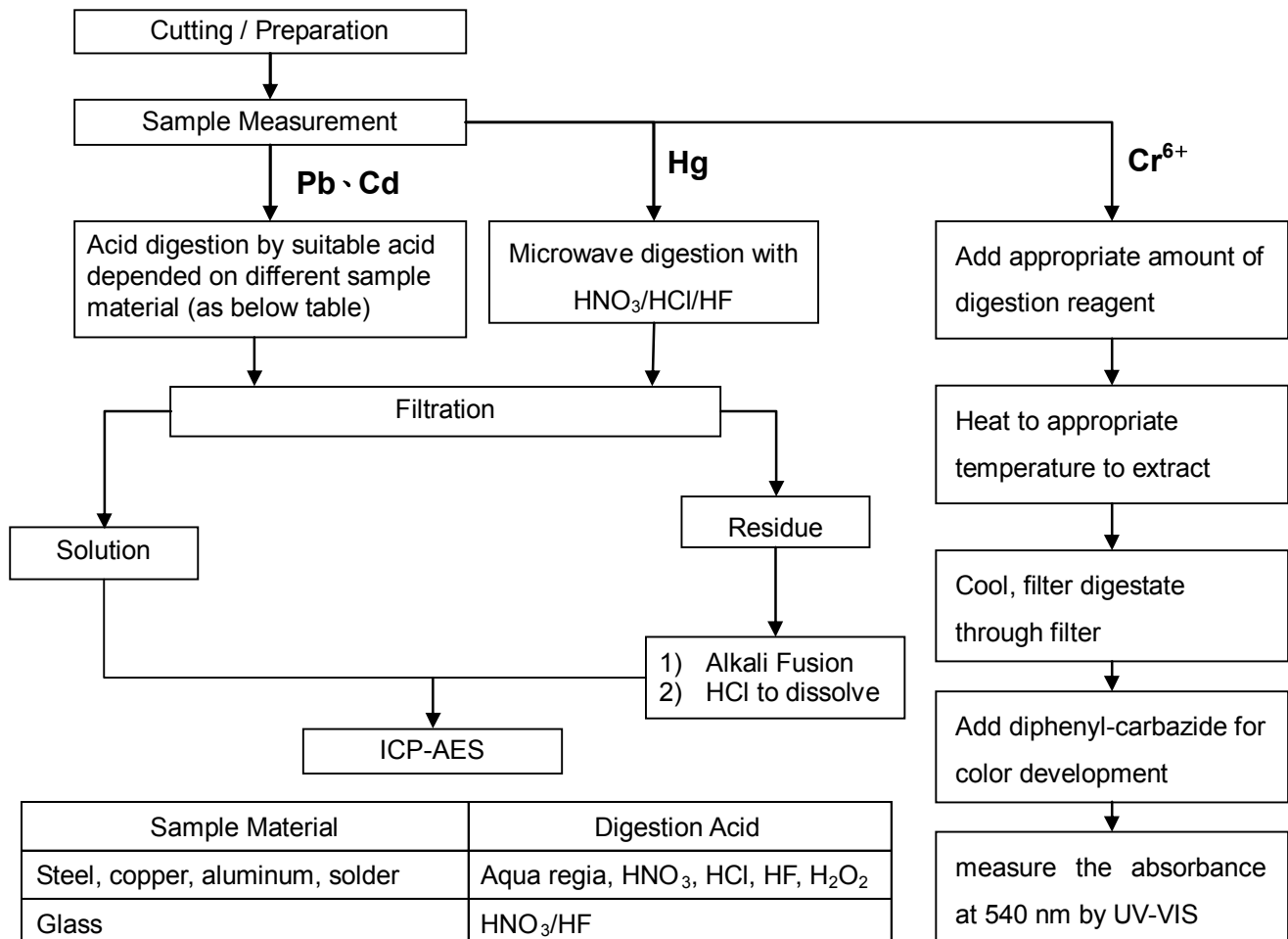
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Sample Material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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** End of Report **

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