

## Test Report

No. : CE/2010/A2198

Date : 2010/10/20

Page : 1 of 4

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company.  
除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

## Test Report

No. : CE/2010/A2198    Date : 2010/10/20    Page : 2 of 4

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



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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	12	2
Lead (Pb)	(2)	21400	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 : SILVER COLORED METAL (INCLUDING THE PLATING LAYER)

#### 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 cm<sup>2</sup> sample surface area.

5. The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing.  
 The above result(s) was/were only given as the informality value.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。

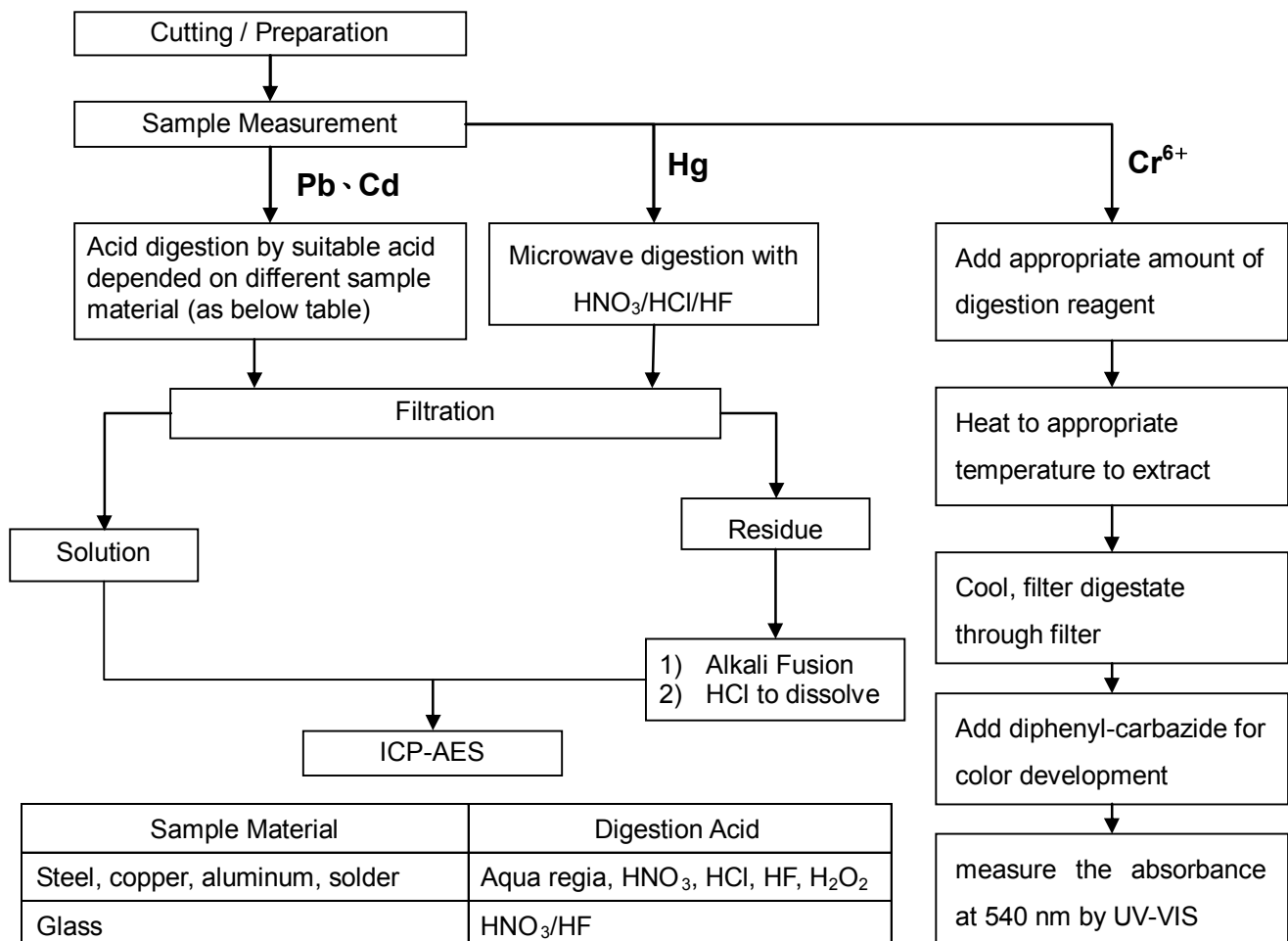
This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

## Test Report No. : CE/2010/A2198 Date : 2010/10/20 Page : 3 of 4

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



- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.  
 (Cr<sup>6+</sup> 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 <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

## Test Report No. : CE/2010/A2198 Date : 2010/10/20 Page : 4 of 4

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



\*\* End of Report \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.