

Test Report

No. : CE/2010/85338

Date : 2010/09/09

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MATSUKI ELECTRIC COMPANY
4F.-5, NO. 83, SEC. 2, DONGDA RD., HSINCHU CITY 300,
TAIWAN, R. O. C.



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

Sample Description : MOSFET
Style/Item No. : TO-251 / TO-252
Sample Receiving Date : 2010/08/30
Testing Period : 2010/08/30 TO 2010/09/09

=====

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 UV/Vis Spectrometry.
- (5) Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.
- (6) Determination of PBB and PBDE by GC/MS.

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


Chenyu Kung / Operation Manager
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	No.2	
Cadmium (Cd)	(1)	n.d.	n.d.	2
Lead (Pb)	(2)	7520	n.d.	2
Mercury (Hg)	(3)	n.d.	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	---	2
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(5)	---	Negative	See Note 4
Sum of PBBs	(6)	n.d.	---	-
Monobromobiphenyl		n.d.	---	5
Dibromobiphenyl		n.d.	---	5
Tribromobiphenyl		n.d.	---	5
Tetrabromobiphenyl		n.d.	---	5
Pentabromobiphenyl		n.d.	---	5
Hexabromobiphenyl		n.d.	---	5
Heptabromobiphenyl		n.d.	---	5
Octabromobiphenyl		n.d.	---	5
Nonabromobiphenyl		n.d.	---	5
Decabromobiphenyl		n.d.	---	5
Sum of PBDEs		n.d.	---	-
Monobromodiphenyl ether		n.d.	---	5
Dibromodiphenyl ether		n.d.	---	5
Tribromodiphenyl ether		n.d.	---	5
Tetrabromodiphenyl ether		n.d.	---	5
Pentabromodiphenyl ether		n.d.	---	5
Hexabromodiphenyl ether		n.d.	---	5
Heptabromodiphenyl ether		n.d.	---	5
Octabromodiphenyl ether		n.d.	---	5
Nonabromodiphenyl ether		n.d.	---	5
Decabromodiphenyl ether		n.d.	---	5

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SGS Taiwan Ltd.

台灣檢驗科技股份有限公司

Chemical-Taipei 33 WuChyuan Road, Wuku Industrial Zone, Taipei County, Taiwan /台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

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TEST PART DESCRIPTION:

- No.1 : MIXED ALL PARTS OF BODY (2 STYLE)
No.2 : MIXED ALL PARTS OF SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER) (2 STYLE)

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. "-" = Not Regulated
 6. "---" = Not Conducted
 7. 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.
 8. This report supersedes the previous document bearing the test report number CE/2010/85338 which was issued on 2010/09/02.

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Test Report

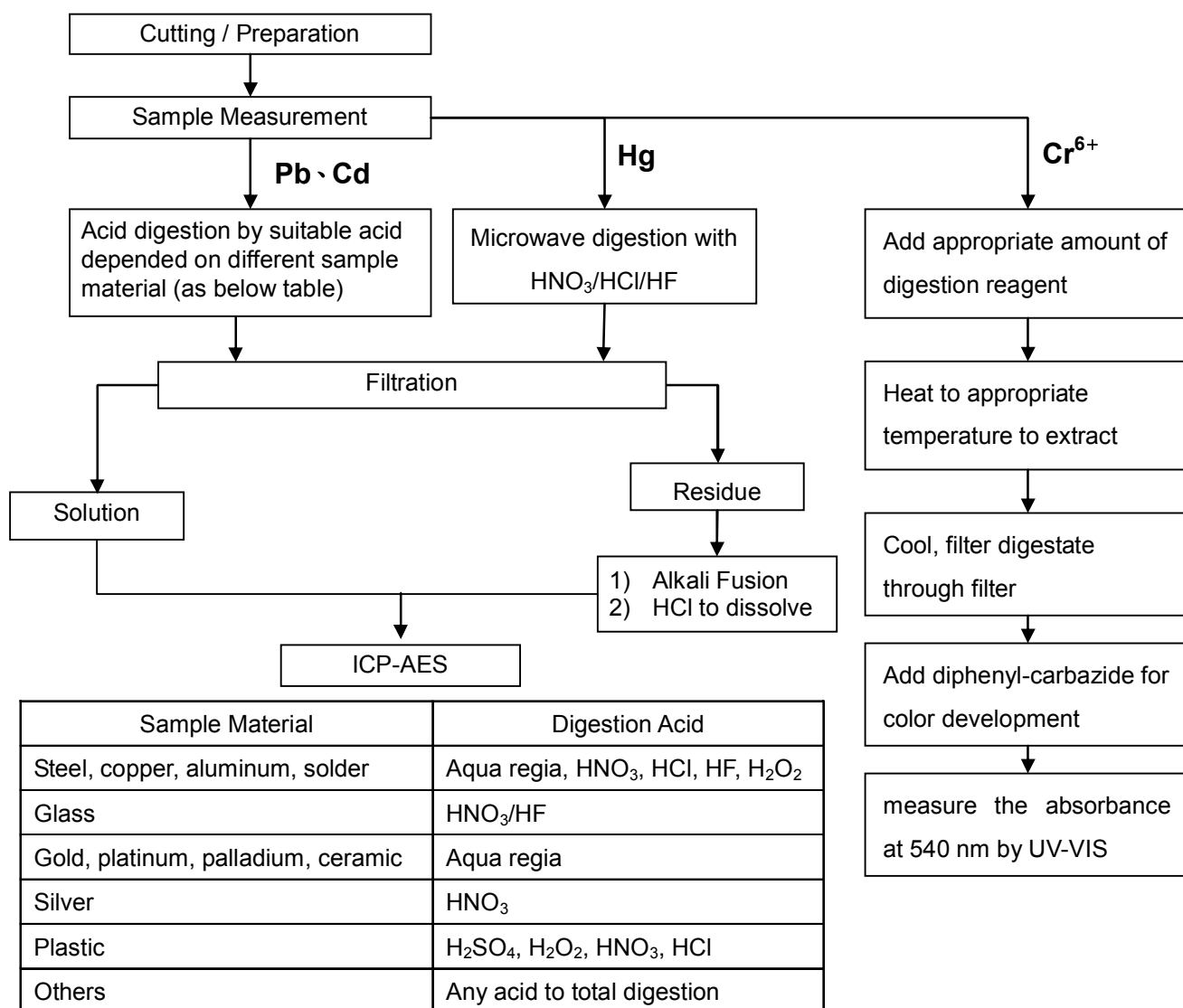
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



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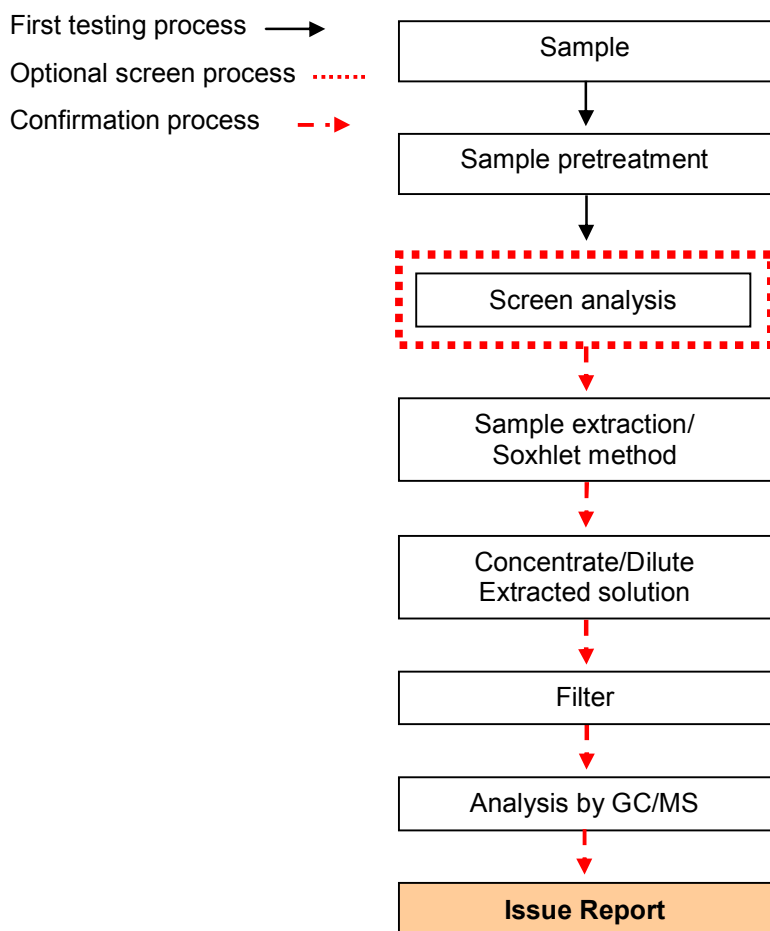
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PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Roman Wong
- 2) Name of the person in charge of measurement: Troy Chang



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**** End of Report ****

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