

**Test Report**

No. 2723283-CH03

Date: April 16, 2012

Page 1 of 4

**Bourns, GDT  
 Trimpot Electronics, Ltda.  
 JBO SJS 1387  
 PO Box 025240  
 Miami, FL 33102  
 United States**

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

**Tin Plated Alloy 42 Electrode  
 Color: Metallic**

Sample Received Date: **4/5/2012**

Testing Period: **4/6/2012 – 4/16/2012**

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Comment
European Directive 2011/65/EU Annex II (RoHS); recasting 2002/95/EC	PASS

Signed for and on behalf of SGS North America

Prepared By:




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 Laboratory Manager, Chemistry Laboratory

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**1. European Directive 2011/65/EU Annex II (RoHS); recasting 2002/95/EC**

Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content

Method : With reference to IEC 62321:2008. Lead, Cadmium and Mercury were analyzed by Inductively Coupled Argon Plasma Spectrometry, Chromium (VI) was analyzed by UV-Visible Spectroscopy and PBB, PBDE were analyzed by Gas Chromatography – Mass Spectrometry (GC-MS).

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1			
Cadmium (Cd)	ND		5	100
Lead (Pb)	31		5	1000
Mercury (Hg)	ND		5	1000
Hexavalent Chromium by spot test / boiling water extraction (Cr(VI))	Negative		#	#
<b>Sum of PBBs</b>	ND		--	1000
Monobromobiphenyl	ND		5	--
Dibromobiphenyl	ND		5	--
Tribromobiphenyl	ND		5	--
Tetrabromobiphenyl	ND		5	--
Pentabromobiphenyl	ND		5	--
Hexabromobiphenyl	ND		5	--
Heptabromobiphenyl	ND		5	--
Octabromobiphenyl	ND		5	--
Nonabromobiphenyl	ND		5	--
Decabromobiphenyl	ND		5	--
<b>Sum of PBDEs</b>	ND		--	1000
Monobromodiphenyl ether	ND		5	--
Dibromodiphenyl ether	ND		5	--
Tribromodiphenyl ether	ND		5	--
Tetrabromodiphenyl ether	ND		5	--
Pentabromodiphenyl ether	ND		5	--
Hexabromodiphenyl ether	ND		5	--
Heptabromodiphenyl ether	ND		5	--
Octabromodiphenyl ether	ND		5	--
Nonabromodiphenyl ether	ND		5	--
Decabromodiphenyl ether	ND		5	--
<b>Comment</b>	PASS		--	--

**Sample Description:**
**1. Metallic Tin Plated Alloy 42 Electrode**

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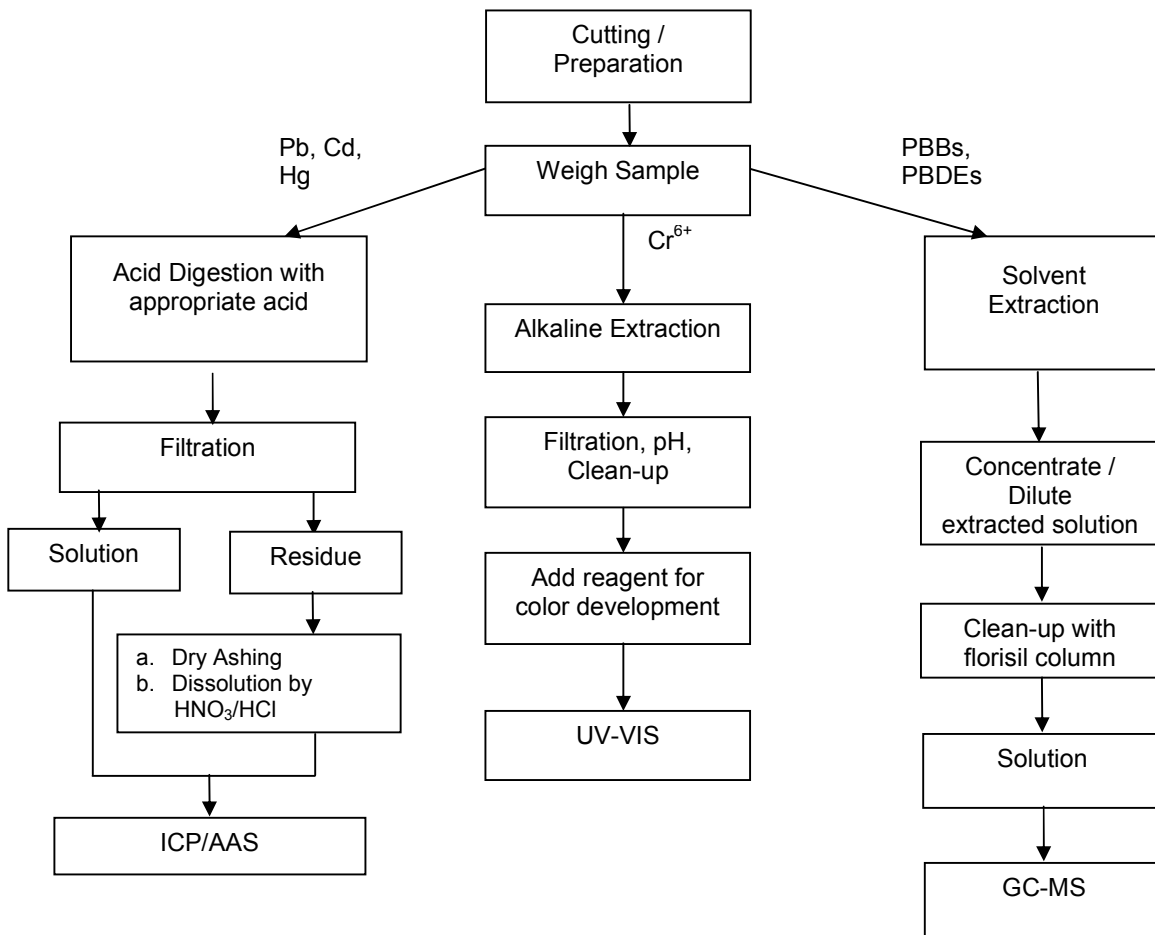
Note :

1. ND = Not Detected = denoted less than reporting limit

Remark :

1. # = Negative means the absence of CrVI on the tested areas; Positive means the presence of CrVI on the tested areas. The detected CrVI concentration in the boiling-water-extraction solution is equal to or greater than 0.02 mg/kg with 50cm<sup>2</sup> sample surface area.

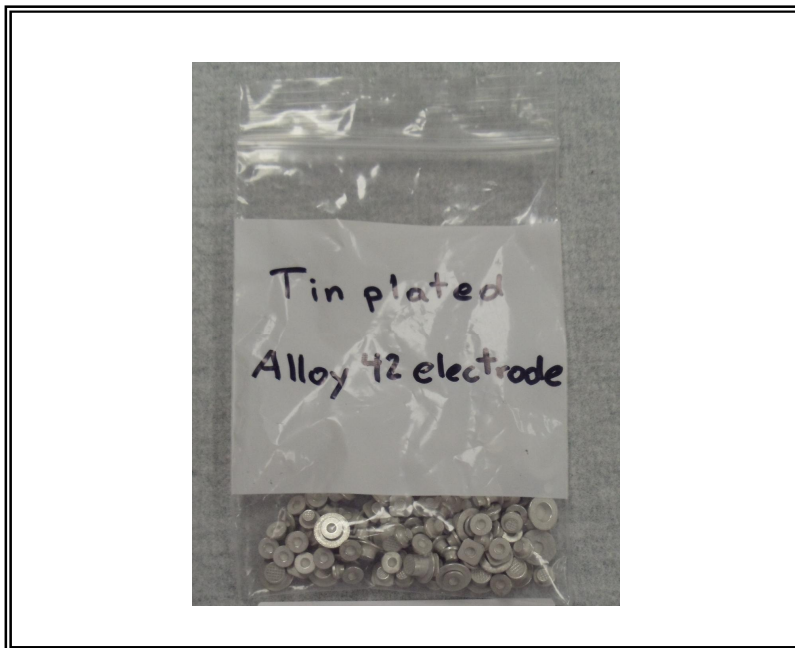
Flowchart for RoHS Testing:



- Note :
- For Cr(VI), spot test is adopted for metal sample.
  - The Cd, Pb and Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.

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**Sample Photo:**



SGS authenticates the photo on the original report only

\*\*\* End of Report \*\*\*

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