

Test Report No. 2723283-CH05 Date: April 16, 2012 Page 1 of 4

Bourns, GDT Trimpot Electronicas, 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 Copper 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	PASS
(RoHS); recasting 2002/95/EC	PASS

Signed for and on behalf of SGS North America

Prepared By:

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SGS North America Inc. 291 Fairfield Ave., Fairfield, NJ 07004, USA t (973) 575-5252 f (973) 575-7175 www.us.sgs.com/cts



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

<u>Cadmium, Lead, Mercury, Hexavalent Chromium, Polybromobiphenyl (PBB) and Polybromodiphenyl ether (PBDE) content</u>

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	Permissible
	1	Limit (mg/kg)	Limit (mg/kg)
Cadmium (Cd)	ND	5	100
Lead (Pb)	32	5	1000
Mercury (Hg)	ND	5	1000
Hexavalent Chromium by spot test / boiling (Cr(VI) water extraction) Negative	#	#
Sum of PBBs	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	
Sum of PBDEs	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	
Comment	PASS		

Sample Description:

1. Metallic Tin Plated Copper Electrode

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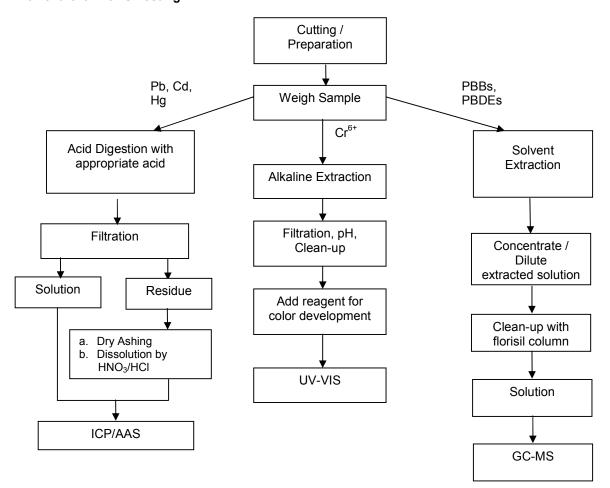
Note:

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 50cm² sample surface area.

Flowchart for RoHS Testing:



Note: 1. For Cr(VI), spot test is adopted for metal sample.

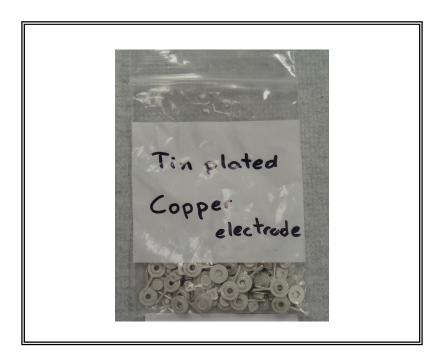
The Cd, Pb and Hg contents test on polymeric samples were dissolved totally by preconditioning method according to above flow chart.

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Sample Photo:



SGS authenticates the photo on the original report only

*** End of Report ***

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