

## Test Report

No.: GZ0704057842/CHEM

Date: APR 27, 2007

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WANMING ELECTRONICS CO., LTD  
NO 205 XINGQIAN ROAD JIMEI DISTRICT, XIAMEN, FUJIAN, P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as NTC THERMISTORS  
Client Reference : Item No.: WTR, WTM SERIES

SGS Ref No. : GZ10339607EC-4.4  
Supplier : XIAMEN WANMING ELECTRONICS CO., LTD  
Sample Receiving Date : APR 23, 2007  
Testing Period : APR 23, 2007 TO APR 27, 2007

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

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV  
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products  
(1) Determination of Cadmium by ICP.  
(2) Determination of Lead by ICP&AAS.  
(3) Determination of Mercury by ICP.  
(4) Determination of Hexavalent Chromium by Colorimetric Method.  
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Remark : As requested by client, the test of No.1 was conducted as whole / part sample, for the sample can't be disjointed.

Signed for and on behalf of  
SGS-CSTC Ltd.



Huang Fang, Sunny  
Sr. Engineer

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

Test Item(s):	Method (refer to)	No.1	No.2	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	N.D.	2	100
Lead (Pb)	(2)	20	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	N.D.	2	1000
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	---	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	---	Negative	See Note 5	#
<b>Sum of PBBs</b>		<b>N.D.</b>	---	-	1000
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	
<b>Sum of PBDEs (Mono to Nona)(Note 4)</b>	(5)	<b>N.D.</b>	---	-	1000
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	
<b>Sum of PBDEs (Mono to Deca)</b>		<b>N.D.</b>	---	-	-

**Test Part Description:**

No.1 Green body w/ black printing (mixed)

No.2 Silvery metal pin

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

5. **Spot-test:**

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(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 CrVI coating

Positive = Presence of CrVI coating; 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.

6. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

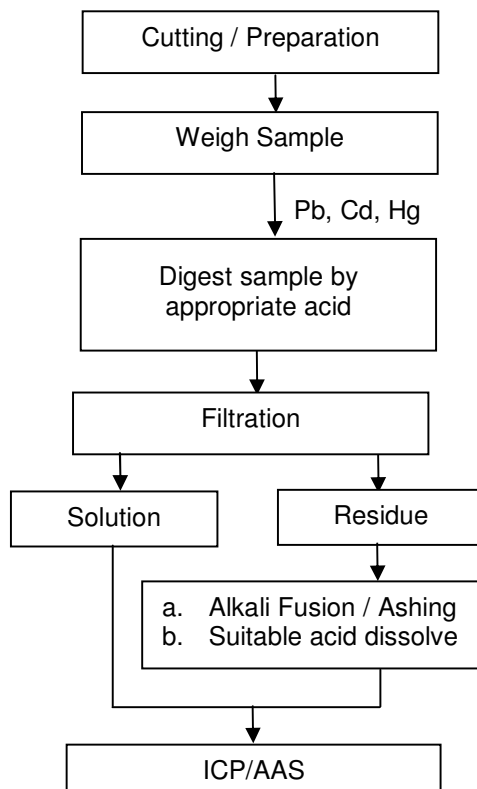
Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

7. “-“ = Not regulated

8. “---“ = Not Conducted

### ATTACHMENTS

Flow chart of test:



Operator : David Shen  
Leader : Emily Feng