



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **TEST REPORT**

**RoHS 2011/65/EU**

**Test Report Number : CGZ3150519-01353-C**



**CTS (Ningbo) Testing Service Technology Co., Ltd.**

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**TEST REPORT**

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### 1 General Information

#### 1.1 Application Details

Name : Xindao B.V.  
Address : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands  
Contact : kevin  
Telephone : /  
Fax : /  
Mobile telephone : /  
Email : kevin.zsz@xindao.com

#### 1.2 Manufacturer & Buyer

Manufacturer name : Xindao B.V.  
Address : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands  
Contact : kevin  
Telephone : /  
Fax : /  
Mobile telephone : /  
Email : kevin.zsz@xindao.com  
Buyer name : /

#### 1.3 Description of the Test Item

Sample name : 4600 mAh thin powerbank  
Model No. : P324.75  
Order No. : PU015862、PU015188  
Brand name : /  
Condition of sample(s) : EFFECTIVE

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## 2 Test results

### 2.1 Sample Receiving Date

May 19, 2015

### 2.2 Testing Period

May 19, 2015 to May 20, 2015

### 2.3 Test Requested

In accordance with the RoHS Directive 2011/65/EU Annex II.

### 2.4 Test Method

1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321-3-1:2013.
2. Chemical test method

Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)	With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)	With reference to IEC 62321-4:2013	ICP-AES
Chromium VI (Cr VI)	With reference to IEC 62321:2008	UV-Vis
PBBs	With reference to IEC 62321:2008	GC-MS
PBDEs		

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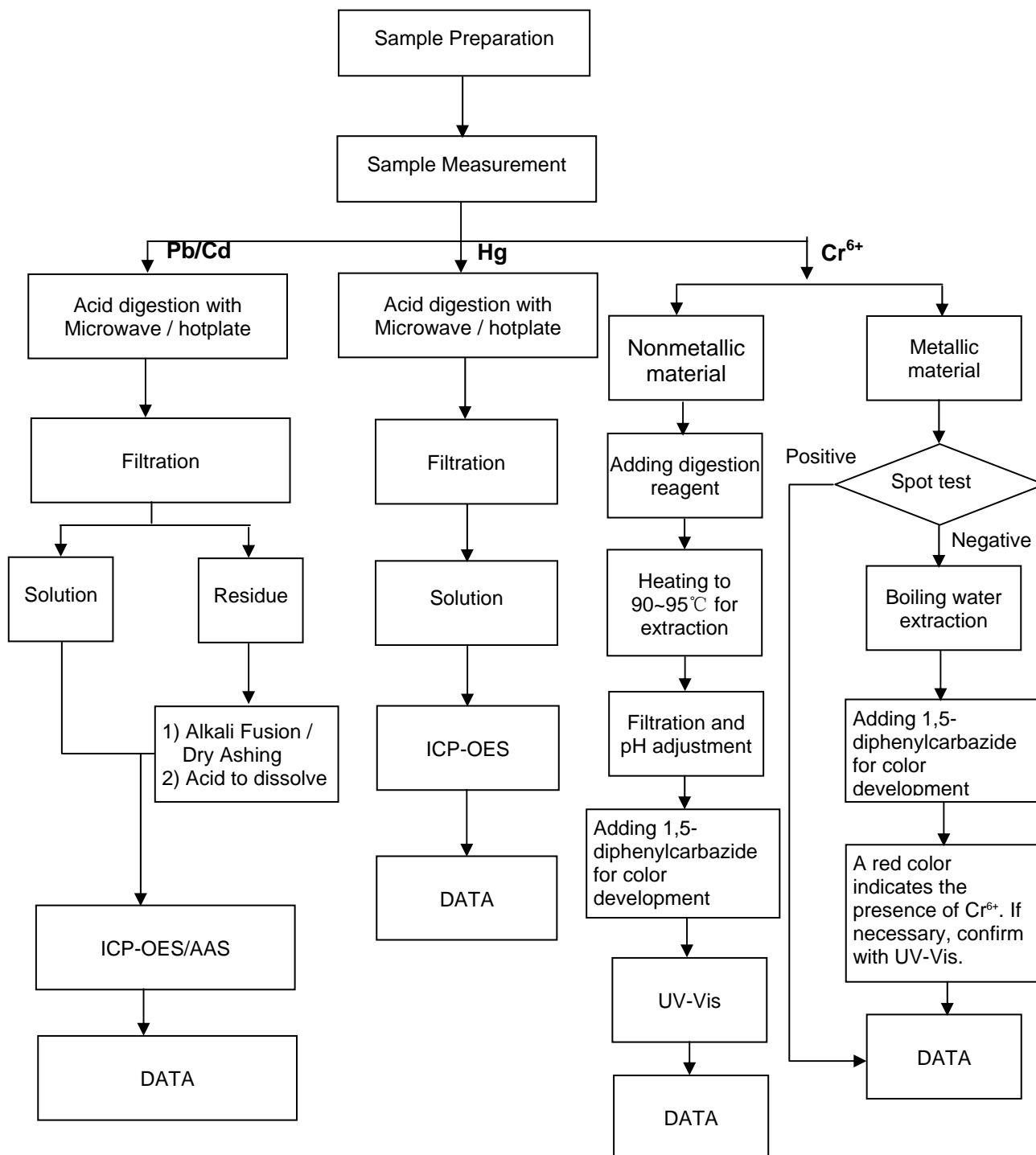
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### 2.5 Chemical Test Method Flow Chart



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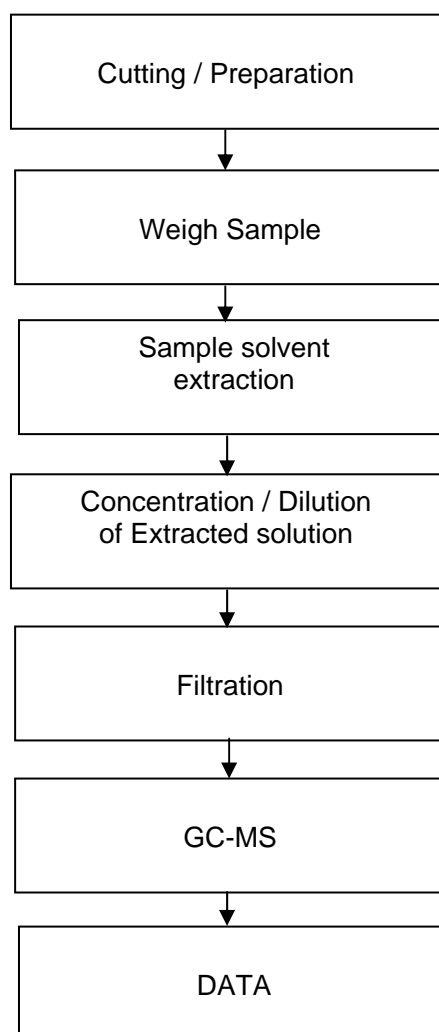
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### PBBs / PBDEs



## 2.6 Conclusion

Based on the performed tests on submitted samples, the results of Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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### 2.7 Test Results

#### 2.7.1 Test results of all parts by EDXRF and chemical confirmation

No.	Sample Description			Results					Chemical Confirmation Result (Unit=mg/kg)
				Pb	Cd	Hg	Cr	Br	
1	Cover	Grey plastic		P	P	P	P	P	
2		Green cover	Green plastic	P	P	P	P	P	
3			Black coating	P	P	P	P	P	
4	Silvery metal screw			P	P	P	P	/	
5	Yellowdouble-side adhesive tape			P	P	P	P	P	
6	Wire	Black cable jacket		P	P	P	P	P	
7		Red cable jacket		P	P	P	P	P	
8		Silvery wire		P	P	P	P	/	
9	PCB	Green fiberboard		P	P	P	P	X	PBBs,PBDEs=N.D.
10		Copper foil		P	P	P	P	/	
11		Solder tin		X	P	P	P	/	Pb=662
12		Connection base	Silvery metal cover	P	P	P	P	/	
13			Black plastic	P	P	P	P	P	
14			White plastic	P	P	P	P	P	
15			Metal wafer	P	P	P	P	/	
16		Chip resistor		X	P	P	P	P	Pb=1.5×10 <sup>3</sup> △
17		Chip capacitor		P	P	P	P	P	

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No.	Sample Description			Results					Chemical Confirmation Result (Unit=mg/kg)
				Pb	Cd	Hg	Cr	Br	
18	PCB	IC	Black body	P	P	P	P	X	PBBs,PBDEs=N.D.
19			Pin	P	P	P	P	/	
20		Inductance	Grey body	P	P	P	P	P	
21			Pin	P	P	P	P	/	
22		Chip LED		P	P	P	P	X	PBBs,PBDEs=N.D.
23		Lockless switch	Black plastic	P	P	P	P	P	
24			White plastic	P	P	P	P	P	
25			Metal dome	P	P	P	X	/	CrVI=N.D.
26			Pin	P	P	P	P	/	
27	USB wire	White plug material		P	P	P	P	P	
28		White plastic frame		P	P	P	P	X	PBBs,PBDEs=N.D.
29		Black plastic frame		P	P	P	P	P	
30		Silvery metal cover		P	P	P	P	/	
31		Silvery metal wafer		P	P	P	P	/	
32		White jacket		P	P	P	P	P	
33		White cable jacket		P	P	P	P	P	
34		Grey cable jacket		P	P	P	P	P	
35		Copper-colored wire		P	P	P	P	/	

Note : P = Below Limit (Pass)  
 F = Over Limit (Fail)  
 X = Inconclusive  
 N.D. = not detected (less than MDL)  
 1mg/kg=1ppm=0.0001%

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△ According to the declaration from client, the source of lead in the sample could be from the ceramic parts. Lead in electronic ceramic parts is exempted from the requirement of RoHS Directive (2011/65/EU).

### Remarks:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013.

Element	Polymer Materials	Metallic Materials	Electronic Materials
Pb	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$
Cd	$P \leq 50 < X < 130 \leq F$	$P \leq 50 < X < 130 \leq F$	$X < 130 \leq F$
Hg	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 250 < X$	/	$P \leq 250 < X$

- (2) Chemical Confirmation Result acceptable Limit:

Test items	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit	1000	100	1000	1000	1000	1000

- (3) The test results only apply to the materials requested by applicant.

Written by: *Amanda* Inspected by: *Annie* Approved by: *hyt*

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



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### 3 Sample Reference Photo



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