



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

RoHS 2011/65/EU

Test Report Number : CNB3151012-04747-C



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

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1 General Information

1.1 Application Details

Name : Ningbo Zhongdi Industry & Trade Co.,Ltd.
Address : NO.247-257,Industry-Trading road, Jishigang Industry Development Area, Ningbo, China.
Contact : MR.FEI
Telephone : +86-574-88036108
Fax : +86-574-88036107
Mobile telephone : 13454716998
Email : zdec@cnool.net

1.2 Manufacturer & Buyer

Manufacturer name : Ningbo Zhongdi Industry & Trade Co.,Ltd.
Address : NO.247-257,Industry-Trading road, Jishigang Industry Development Area, Ningbo, China.
Contact : MR.FEI
Telephone : +86-574-88036108
Fax : +86-574-88036107
Mobile telephone : 13454716998
Email : zdec@cnool.net
Buyer name : /

1.3 Description of the Test Item

Sample name : GLUE GUN
Model No. : ZD-7 ,ZD-7A,ZD-5A,ZD-6A,ZD-6,ZD-5B,ZD-9(B),ZD-7C,
ZD-7CK,ZD-6C,ZD-6CK,ZD-5C,ZD-9,ZD-9A
Brand name : /
Condition of sample(s) : EFFECTIVE



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2 Test results

2.1 Sample Receiving Date

Oct. 12, 2015

2.2 Testing Period

Oct. 12, 2015 to Oct. 27, 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

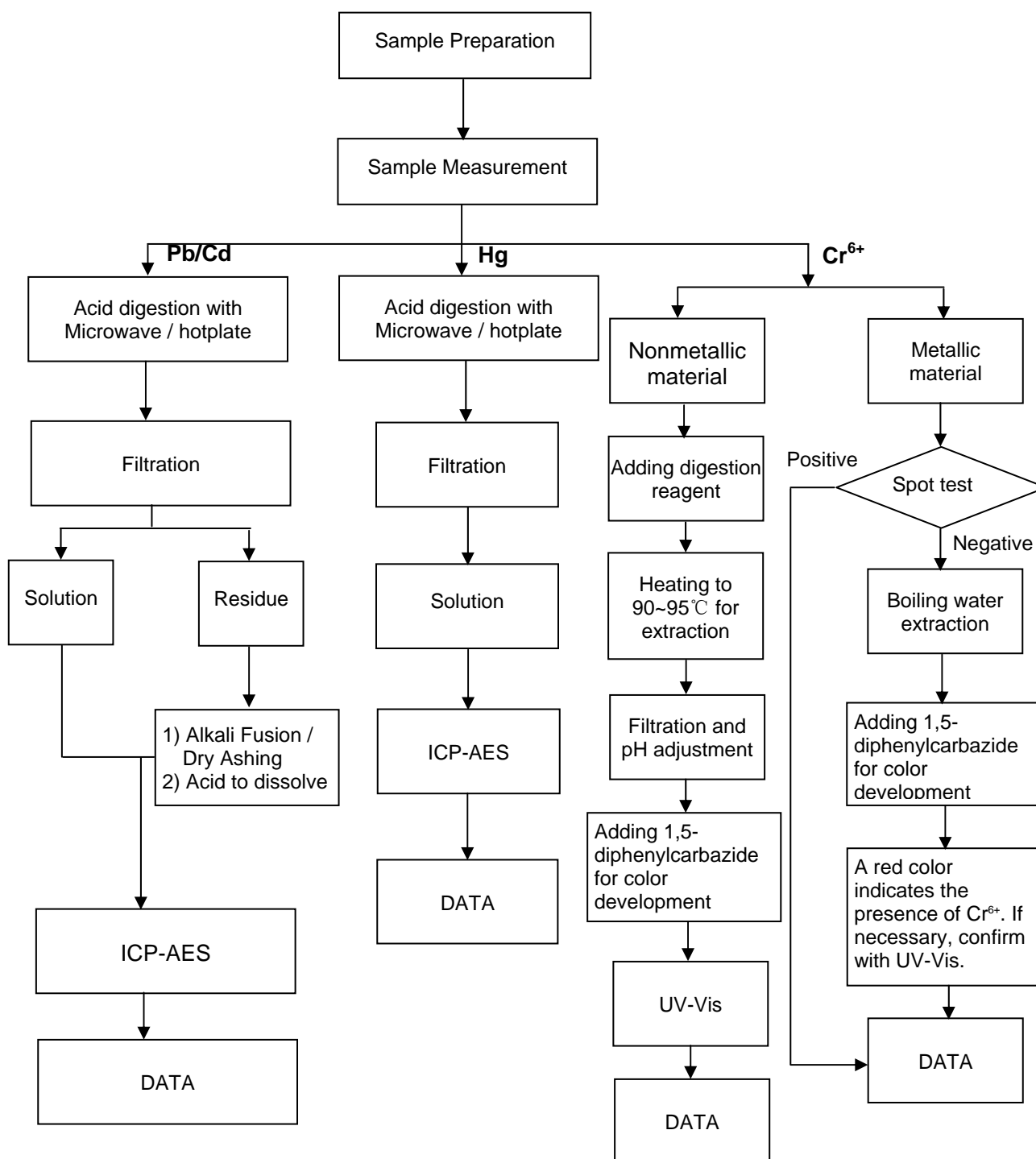
Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)	With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)	With reference to IEC 62321-4:2013	ICP-AES
Chromium VI (Cr VI)	With reference to IEC 62321:2008	UV-Vis
PBBs	With reference to IEC 62321:2008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

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2.5 Chemical Test Method Flow Chart



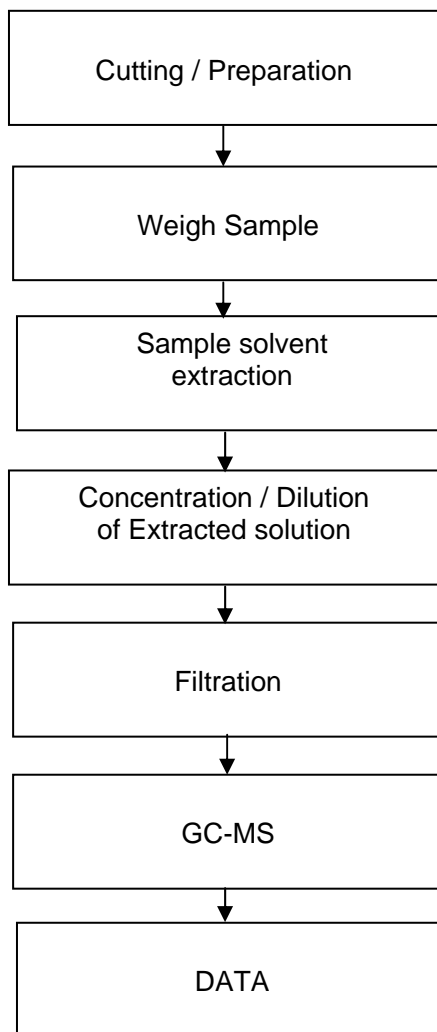
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PBBs / PBDEs



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	Black plastic cover	P	P	P	P	P	/	
2	Orange plastic cover	P	P	P	P	P	/	
3	Sticker with printing	P	P	P	P	P	/	
4	CE sticker	P	P	P	P	P	/	
5	Silvery metal hook	P	P	P	P	/	/	
6	Silvery metal block	P	P	P	P	/	/	
7	Mica plate	P	P	P	P	P	/	
8	Black soft plastic washer	P	P	P	P	P	/	
9	Orange soft plastic sleeve	P	P	P	P	P	/	
10	Silvery metal flat screw	P	P	P	P	/	/	
11	Leaden spring	P	P	P	P	/	/	
12	Yellow adhesive tape	P	P	P	P	P	/	
13	Black pyrocondensation tube	P	P	P	P	P	/	
14	White cable jacket	P	P	P	P	P	/	
15	Gray cable jacket	P	P	P	P	P	/	
16	Blue cable jacket	P	P	P	P	P	/	
17	Silvery wire	P	P	P	P	/	/	
18	Copper-colored wire	P	P	P	P	/	/	
19	Silvery metal wafer	P	P	P	P	/	/	
20	Power wire with plug	Silvery plug pole	X	P	P	P	/	Pb: 2.4×10 ^{4*}
21		White plastic frame	P	P	P	P	P	/
22		Black plug material	P	P	P	P	P	/
23		Black jacket	P	P	P	P	P	/
24		Coffee cable jacket	P	P	P	P	P	/
25		Blue cable jacket	P	P	P	P	P	/

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No.	Sample Description		Results					Chemical Confirmation Result (Unit=mg/kg)
			Pb	Cd	Hg	Cr	Br	
26	Power wire with plug	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%
 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 50cm² sample surface area.
 * According to the declaration from client, the source of lead in the sample could be from the copper alloy material. Lead as a copper alloy containing which is under 4% (40000ppm) is exempted from the requirement of RoHS Directive (2011/65/EU Annex III).

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 ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cd	P ≤ 50 < X < 130 ≤ F	P ≤ 50 < X < 130 ≤ F	X < 130 ≤ F
Hg	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F	P ≤ 500 < X < 1300 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 250 < X	/	P ≤ 250 < X

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(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

Written by:

Jessie

Inspected by:

Susei

Approved by:

Jan



End of Report

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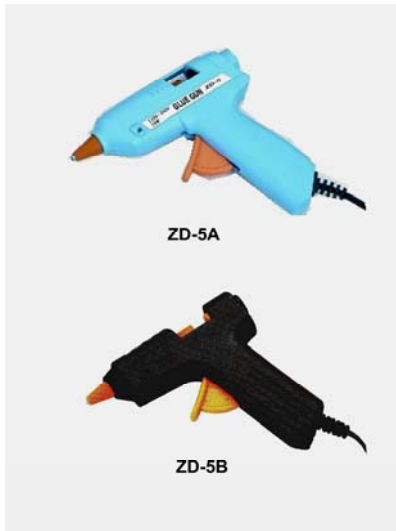
3 Sample Reference Photo



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3-4



4-4

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ZD-7C
5-8



ZD-5C
6-8



ZD-6C
7-8



ZD-9
8-8

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