



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **TEST REPORT**

**RoHS 2011/65/EU**

**Test Report Number : CNB3151012-04744-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 : 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 : SOLDERINGIRON  
Model No. : ZD-708,ZD-70D,ZD-70DA, ZD-70DB, ZD-707,ZD-707N (L,) ZD-707B (L) , ZD-707N,ZD-707C,ZD-28,ZD-200NDJ,ZD-200NDQ, ZD-20,ZD-20 (A) ,ZD-31DJ,ZD-31DQ,ZD-80 (A) , ZD-90 (A) ,ZD-82N (A) ,ZD-81N (A) ,ZD-60 (A) ,ZD-29T, ZD-82B (A) , ZD-81B (A) , ZD-502ZD-21, ZD-22,ZD-23, ZD-709,ZD-701,ZD-200N,ZD-200E,ZD-200C,ZD-200B,ZD-90B (A) ,ZD-200E,ZD-410,ZD-551,ZD-407,ZD-30C,ZD-406,ZD-408, ZD-712,ZD-36,ZD-704,ZD-37,ZD-400,ZD-401,ZD-717A,ZD-702, ZD-406 (K,T) , ZD-28A,ZD-715L,ZD-715,ZD-30B (74B30B) , ZD-701N,ZD-701,ZD-30CN,ZD-507,ZD-507A,ZD-507D (B、C) , ZD-707A,ZD-410A,ZD-33 (74B33) ,ZD-721B,ZD-721N,ZD-721C, ZD-724B,ZD-724N,ZD-724C, ZD-722B,ZD-722N,ZD-723B, ZD-723N,ZD-20U,ZD-733,ZD-70,ZD-31,ZD-417,ZD416G, ZD-30DQ,ZD-30DJ,ZD-725B,ZD-81CNZD733B,WD,WDB,TLW, TLW-500,ZD-718,ZD-716,ZD-703N,ZD-35N, ZD-705N,ZD-705,

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ZD-407S,ZD-30,ZD-32,ZD-507H,ZD-632  
 Brand name : /  
 Condition of sample(s) : EFFECTIVE

## 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

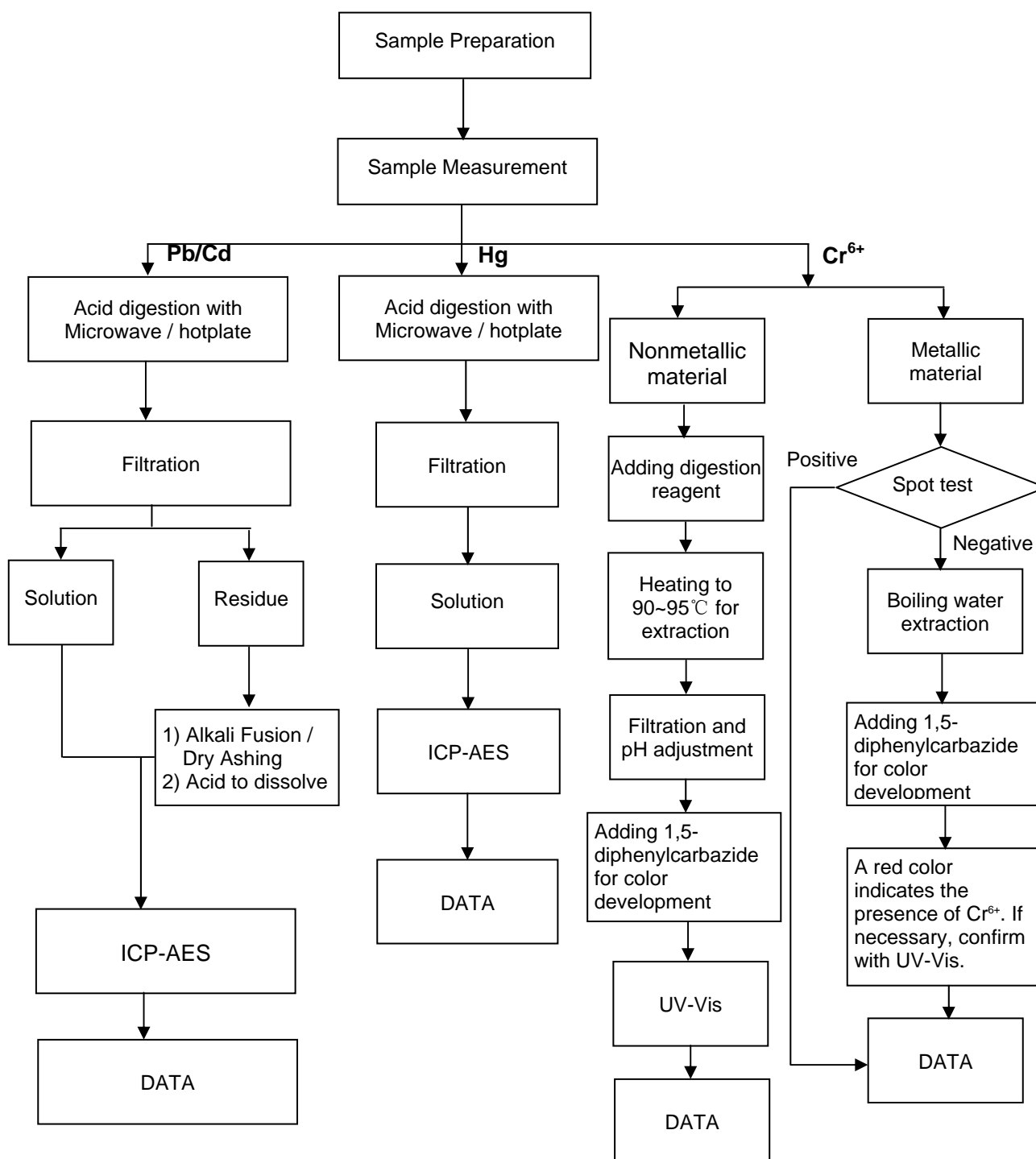
Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)	With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)	With reference to IEC 62321-4:2013	ICP-AES
Chromium VI (Cr VI)	With reference to IEC 62321:2008	UV-Vis
PBBs	With reference to IEC 62321:2008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

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### 2.5 Chemical Test Method Flow Chart



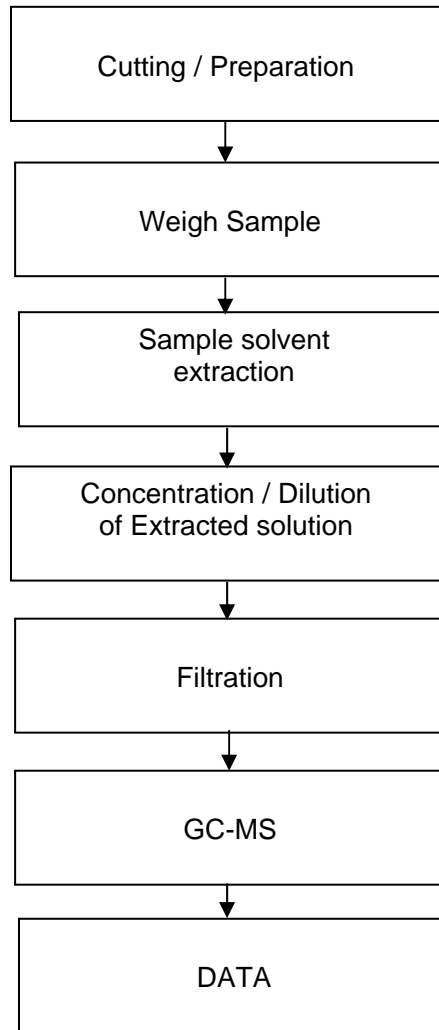
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**PBBs / PBDEs**



**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	Power wire with plug	Silvery plug pole	P	P	P	P	/	/
2		Black plug material	P	P	P	P	P	/
3		Black plastic frame	P	P	P	P	X	PBBs: N.D. PBDEs: N.D.
4		Silvery metal wafer	P	P	P	P	/	/
5		Black jacket	P	P	P	P	P	/
6		Coffee cable jacket	P	P	P	P	P	/
7		Blue cable jacket	P	P	P	P	P	/
8		Green-yellow cable jacket	P	P	P	P	P	/
9		Copper-colored wire	P	P	P	P	/	/
10	Binding wire	Black plastic jacket	P	P	P	P	P	/
11		Silvery metal wire	P	P	P	P	/	/
12	Black soft plastic		P	P	P	P	P	/
13	CE sticker		P	P	P	P	P	/
14	Printing with sticker		P	P	P	P	P	/
15	Yellow plastic cover		P	P	P	P	X	PBBs: N.D. PBDEs: N.D.
16	Silvery metal rod		P	P	P	P	/	/
17	Silvery metal flat screw		P	P	P	P	/	/
18	White fiber bushing		P	P	P	P	P	/
19	Red fiber bushing		P	P	P	P	P	/
20	Blue fiber bushing		P	P	P	P	P	/
21	Silvery metal wire		P	P	P	P	/	/
22	Transparent plastic cover		P	P	P	P	P	/
23	PCB	Base material	P	P	P	P	P	/
24		Copper foil	P	P	P	P	/	/

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No.	Sample Description		Results					Chemical Confirmation Result (Unit=mg/kg)
			Pb	Cd	Hg	Cr	Br	
25	LED	Transparent body	P	P	P	P	X	PBBs: N.D. PBDEs: N.D.
26		Pin	P	P	P	P	/	/
27	Color wheel resistor	Yellow body	P	P	P	P	P	/
28		Blue body	P	P	P	P	P	/
29		Pin	P	P	P	P	/	/
30	Brown polyester capacitor	Brown encapsulation material	P	P	P	P	P	/
31		Capacitor film	P	P	P	P	P	/
32		Pin	P	P	P	P	/	/
33	Aluminum electrolytic capacitor	Black plastic jacket with white printing	P	P	P	P	P	/
34		Silvery metal shell	P	P	P	P	/	/
35		Black rubber end closure	P	P	P	P	P	/
36		Pin	P	P	P	P	/	/
37		Capacitor anode film	P	P	P	P	P	/
38		Capacitor cathode film	P	P	P	P	P	/
39		Paper film	P	P	P	P	P	/
40	Voltage stabilizing diode	Red black body	X	P	P	P	P	Pb: $2.1 \times 10^{4*}$
41		Pin	P	P	P	P	/	/
42	Transistor (TO-92)	Black body	X	P	P	P	X	Pb: 820 PBBs: N.D. PBDEs: N.D.
43		Pin	P	P	P	P	/	/
44	IC	Black body	P	P	P	P	X	PBBs: N.D. PBDEs: N.D.
45		Pin	P	P	P	P	/	/
46	In-line inductance	Black soft plastic coat	P	P	P	P	P	/
47		Enamelled wire	P	P	P	P	P	/
48		Winding column	P	P	P	P	P	/
49		Pin	P	P	P	P	/	/
50	Fuse	Transparent glass tube	P	P	P	P	P	/
51		Silvery metal head	P	P	P	P	/	/

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No.	Sample Description		Results					Chemical Confirmation Result (Unit=mg/kg)
			Pb	Cd	Hg	Cr	Br	
52	Fuse	Fuse	P	P	P	P	/	/
53		Pin	P	P	P	P	/	/
54	Adjustable resistor	Black body	P	P	P	P	P	/
55		Yellow button	P	P	P	P	P	/
56		Pin	P	P	P	P	/	/
57	Potentiometer	Body	P	P	P	P	P	/
58		Pin	P	P	P	P	/	/
59	Chip resistor		X	P	P	P	P	Pb: 1.1×10 <sup>3</sup> *
60	Chip rectifier diode		P	P	P	P	X	PBBs: N.D. PBDEs: N.D.

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 50cm<sup>2</sup> sample surface area.

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

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Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 250 < X	/	P ≤ 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

### 2.7.2 Test results by chemical analysis

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
60 Soldering tin and solder	51	N.D.	N.D.	Negative	N.A.	N.A.

- Note :
- Specimens, which requested to determine Cadmium, Mercury and Lead content, have been dissolved completely.
  - N.D. = not detected (less than MDL)
  - N.A. = not applicable
  - 1 mg/kg=1 ppm=0.0001%
  - 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 50cm<sup>2</sup> sample surface area.
  - 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.

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7. \* According to the declaration from client, the source of lead in the sample could be from the glass material .Lead in glass of electronic components ( cathode ray tubes/fluorescent tubes ) is exempted from the requirement of RoHS Directive (2011/65/EU Annex III).
8. The method detect limit for each hazardous substances, and determined individual PBBs and individual PBDEs are:

Method Detect Limit in mg/kg		
Heavy Metals	Lead (Pb)	2
	Cadmium (Cd)	2
	Mercury (Hg)	2
	Chromium (CrVI)	2
PBBs	Monobromobiphenyl	5
	Dibromobiphenyl	5
	Tibromobiphenyl	5
	Tetrabromobiphenyl	5
	Pentabromobiphenyl	5
	Hexabromobiphenyl	5
	Heptabromobiphenyl	5
	Octabromobiphenyl	5
	Nonabromodiphenyl	5
	Decabromodiphenyl	5
PBDEs	Monobromodiphenyl ether	5
	Dibromodiphenyl ether	5
	Tibromodiphenyl ether	5
	Tetrabromodiphenyl ether	5
	Pentabromodiphenyl ether	5
	Hexabromodiphenyl ether	5
	Heptabromodiphenyl ether	5
	Octabromodiphenyl ether	5
	Nonabromodiphenyl ether	5
Decabromodiphenyl ether	5	

Written by: *Jessie*

Inspected by: *Suzie*

Approved by: *Jan*



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

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### 3 Sample Reference Photo



**1-31**



**ZD-30CN**



**ZD-707A**



**ZD-410A**

**3-31**



**ZD-200NDJ**



**ZD-31DJ**

**2-31**



**ZD-90A**



**ZD-715**



**ZD-30B**

**4-31**

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ZD-701



ZD-701N

5-31



ZD-70DA



ZD-707NL



ZD-28

7-31



ZD-200NDQ



ZD-20A



ZD-70D

6-31



ZD-31DQ



ZD-502



ZD-21

8-31

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ZD-22



ZD-701



ZD-23



ZD-200 N



ZD-709



ZD-200E

9-31



ZD-200C

10-31



ZD-407



ZD-551



ZD-30C



ZD-410



ZD-712

11-31

12-31

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ZD-37



ZD-401



ZD-36



ZD-717A



ZD-400



ZD-702

13-31

14-31



ZD-733



ZD-33



ZD-507



ZD-721B



ZD-507A



ZD-721N

15-31

16-31

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ZD-722B



ZD-722N



ZD-20U

17-31



ZD-707BL



ZD-707N



ZD-707C

19-31



ZD-70DB



ZD-723B



ZD-707

18-31



ZD-20



ZD-80



ZD-80A

20-31

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ZD-81B



ZD-90B



ZD-81BA



ZD-90BA



ZD-200B



ZD-406

25-31

26-31



ZD-408



ZD-406T



ZD-704



ZD-28A



ZD-406K



ZD-715L

27-31

28-31

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ZD-507D



ZD-507C



ZD-507B



ZD-723N

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30-31



ZD-721C



ZD-724B



ZD-724N



ZD-724C

31-54



Zd-632

32-54

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**ZD-70**  
**33-54**



**ZD-31**  
**34-54**



**ZD-417**  
**35-54**



**ZD-416G**  
**36-54**

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**ZD-30DQ**  
37-54



**ZD-30DJ**  
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**ZD-725B**  
39-54



**ZD-81CN**  
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**ZD-733B**  
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**WD**  
**42-54**



**WDB**  
**43-54**



**TLW**  
**44-54**

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**TLW 500**  
**45-54**



**ZD-718**  
**46-54**



**ZD-716**  
**47-54**



**ZD-703N**  
**48-54**

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**ZD-35N**  
**49-54**



**ZD-705N**  
**50-54**



**ZD-705**  
**51-54**



**ZD-407S**  
**52-54**

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**ZD-30**  
**53-54**



**ZD-32**  
**54-54**

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