



**Test Report**

Number: SZHH00773482

Applicant: SHENZHEN NEW DONG BO METAL PRODUCTS  
NO.7, XINFENG ROAD, NIANFENG VILLAGE,  
PINGDI TOWN, LONGGANG DISTRICT,  
SHENZHEN CITY

Date: Apr 10, 2013

Attn: LIU YUAN JUN

**Sample Description:**

One (1) submitted sample said to be 电池片 (镀镍).

Lot No. : 0648130327.

Factory's Name : New Dong Bo.



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**Tests conducted:**

As requested by the applicant, for details refer to attached page(s)

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**Conclusion:**

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested Components of Submitted Samples	Mattel QSOP No. 0006-3600 Rev. AA clause 2.3.2.2 for heavy elements Test	Pass

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Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.

Ben N.L. Lin  
General Manager



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### Tests Conducted

#### 1 Heavy Elements Analysis

As per Mattel Quality and Safety Operating Procedure No. 0006-3600 Rev.AA Clause 2.3.2.2, acid digestion and extraction methods were used and heavy elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Total Elements Content	Result (ppm)	Limit (ppm)	
	(1/2)	Tot.	Soluble Method 1
Tot. Barium (Ba)	<5	--	1000
Tot. Lead (Pb)	<5	90	46
Tot. Cadmium (Cd)	<5	75	17
Tot. Antimony (Sb)	<5	--	60
Tot. Selenium (Se)	<5	--	460
Tot. Chromium (Cr)	214	--	60
Tot. Mercury (Hg)	<5	--	60
Tot. Arsenic (As)	52	--	25
Tot. Aluminium (Al)	<10	--	70000
Tot. Boron (B)	<10	--	15000
Tot. Cobalt (Co)	37	--	130
Tot. Copper (Cu)	210	--	7700
Tot. Manganese (Mn)	4520	--	15000
Tot. Nickel (Ni)	8010 <sup>Δ</sup>	10000	930
Tot. Strontium (Sr)	<10	--	56000
Tot. Tin (Sn)	10	--	180000
Tot. Zinc (Zn)	132	--	46000

Soluble Elements Content	Result (ppm)		Limit (ppm)
	Soluble Method 1		Soluble Method 1
	(1)	(2)	
Sol. Chromium (Cr)	<2.5	<2.5	60
Sol. Arsenic (As)	<2.5	<2.5	25
Sol. Nickel (Ni)	96	52	930
Sol. Tin (Sn)	<2	<2	180000

ppm = parts per million

Tot. = Total

Sol. = Soluble

Δ = According to the exemptions Clause 1.2.6 of QSOP 0006-3600 Revision AA, materials using Nickel for electrical conductivity purpose is exempt from the total Nickel requirement.

Tested components :

- (1) Silver color metal (spring).
- (2) Silver color metal (connector plate).

Date sample received : Apr 03, 2013

Testing period : Apr 03, 2013 to Apr 09, 2013

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End of report

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