

Test Report

No. NGBEC1100030101

Date: 25 Jan 2011

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The following sample(s) was/were submitted and identified on behalf of the clients as : Zinc-Manganese Battery

SGS Job No. : NP11-000043 - NB

Main Substance : Zn,MnO2

Model No. : R03/R6/R14/R20

Supplier :

Date of Sample Received : 19 Jan 2011

Testing Period : 19 Jan 2011 - 25 Jan 2011

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : The submitted battery sample does not exceed the limit mentioned in the Articles 4 of Directive 2006/66/EC.

However, according to Article 21(3), the sample shall be marked with the chemical symbol Lead.

Signed for and on behalf of
SGS-CSTC Ltd.



Wang Wei, Terry
Approved Signatory

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Member of the SGS Group (SGS SA)

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	NGB11-000301.001	Battery

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Articles 4 of Directive 2006/66/EC - Heavy Metals Content in Batteries and Accumulators

Test Method : Acid digestion method, analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Lead (Pb)	-	%	0.0010	0.0828
Cadmium (Cd)	0.0020	%	0.0010	ND
Mercury (Hg)	0.0005	%	0.0001	ND

Notes :

- (1) Results shown are of total weight of the battery sample.
- (2) According to the Article 21(3) of Directive 2006/66/EC, all types of battery shall include the chemical symbol Lead when containing more than 0.004% of Pb; button cell or batteries composed of button cells shall include the chemical symbol Mercury when containing more than 0.0005% but less than 2% of Hg; other batteries or accumulators (except button cell and portable battery) shall include the chemical symbol Cadmium when containing more than 0.002% of Cd.

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Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

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