



TEST REPORT

LAB NO. : (5211)305-0609
DATE : November 8, 2011
PAGE : 1 OF 4

APPLICANT : ATC EnergyTech Corporation Limited
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Kowloon Bay, Hong Kong

CONTACT PERSON : Mr. Wilson Lai

DATE OF SUBMISSION : November 2, 2011

TEST PERIOD : November 2, 2011 to November 8, 2011

NO. OF WORKING DAYS : 5

SAMPLE DESCRIPTION : Brand: ATC, eneMega and MegaCell
Zinc Chloride Batteries: R03, R6, R14, R20, 6F22, 3R12, R1,
R10, 2R10, 6F100, 4R25 & 4R25-2

SUMMARY OF TEST RESULTS

TEST REQUESTED	PASS	FAIL	REMARK
Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators – Portable Batteries or Accumulators Except Button Cells – European Council Directive 2006/66/EC	X		

REMARK

If there are questions or concerns on this report, please contact:

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BUREAU VERITAS HONG KONG LTD.

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LAB NO. : (5211)305-0609
DATE : November 8, 2011
PAGE : 2 OF 4

Photo of the Submitted Sample



TEST RESULT

Heavy Metals Content in Batteries and Accumulators and Waste Batteries and Accumulators – Portable Batteries or Accumulators Except Button Cells – European Council Directive 2006/66/EC

Parameter	Unit	Result	Maximum Allowable Limit
		1	
Total Lead (Pb)	% w/w	< 0.001	See comment if > 0.004 %
Total Cadmium (Cd)	% w/w	< 0.0005	0.002 %
Total Mercury (Hg)	% w/w	< 0.0001	0.0005 %
Conclusion	-	PASS	Please see comment for proper marking of the battery

Test Item 1: Zinc-carbon battery (LR6, AA size, 1.5V)

Note: % w/w = percentage weight by weight
“<” = less than

Method: Sample was digested with acid mixture and then analyzed by Inductively Coupled Argon Plasma Spectrometer.

Comment:

1. Marking requirement:

According to 2006/66/EC, all batteries, accumulators and battery packs shall be appropriately marked with the symbol as below:



Covered area on battery, accumulator or battery pack

- Cylindrical cells: 1.5 % of surface area (maximum 5 × 5 cm)
- Others: 3 % of surface area of the largest side (maximum 5 × 5 cm)
- When the size of the battery, accumulator or battery pack is such that the symbol would be smaller than 0.5 × 0.5 cm, a symbol at least 1 × 1 cm shall be printed on the packaging.

Symbols shall be printed visibly, legibly and indelibly

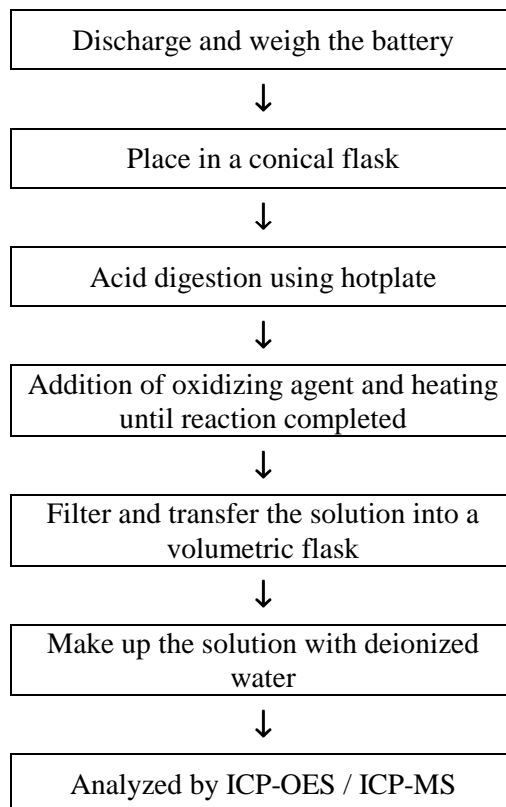
2. When the sample consists lead exceeding 0.004%, the product is to be labeled with heavy metal content with the requirements as below:

- Mark with the chemical symbol for the metal concerned: Pb
- Print beneath the symbol
- Cover an area of at least ¼ of the size of the symbol



LAB NO. : (5211)305-0609
DATE : November 8, 2011
PAGE : 4 OF 4

APPENDIX – TEST PROCESS



END