



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.**..... : WTF19F05032354C

**Applicant**..... : Mid Ocean Brands B.V.

**Address**..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Manufacturer** ..... : 114628

**Sample Name** ..... : Button Battery

**Model No.**..... : LR1130

**Test Requested** ..... Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU-Heavy Metals Content in Batteries and Accumulators

**Test Method**..... : With reference to IEC 62321-5:2013 & IEC 62321-4:2013+AMD1:2017 CSV, analysis was performed by ICP-OES

**Date of Receipt Sample** .... : 2019-05-22

**Date of Test** ..... : 2019-05-22 to 2019-05-28

**Date of Issue**..... : 2019-05-28

**Test Result**..... : Please refer to next page (s)

**Test Conclusion** ..... : The submitted battery sample does not exceed the limit mentioned in Directive 2006/66/EC and its Article 4 amendment of Directive 2013/56/EU.

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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**Test Results:**

Test Item(s)	Unit	Test Result	MDL	Maximum Allowable Limit
		No.1		
Lead (Pb)	%	ND	0.0002	See comment if > 0.004
Cadmium (Cd)	%	ND	0.0002	0.002
Mercury (Hg)	%	ND	0.0002	0.0005

**Specimen Description:**

No.1: Battery

**Note:**

- (1) ND = Not Detected or lower than method detection limit
- (2) MDL = Method Detection Limit
- (3) % = percentage by weight

**Comment:**

(1) Marking requirement:

According to Directive 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:

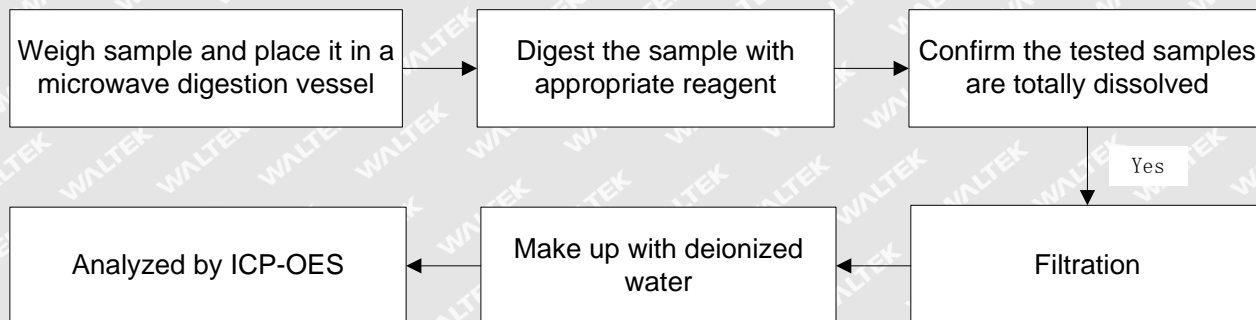
- Cylindrical cells: 1.5 % of surface area (maximum 5×5 cm);
- Others: 3 % of surface area of the largest side (maximum 5 × 5 cm)
- When the size of the battery, accumulator or battery pack is such that the symbol would be smaller than 0.5 × 0.5 cm, a symbol at least 1 × 1 cm shall be printed on the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

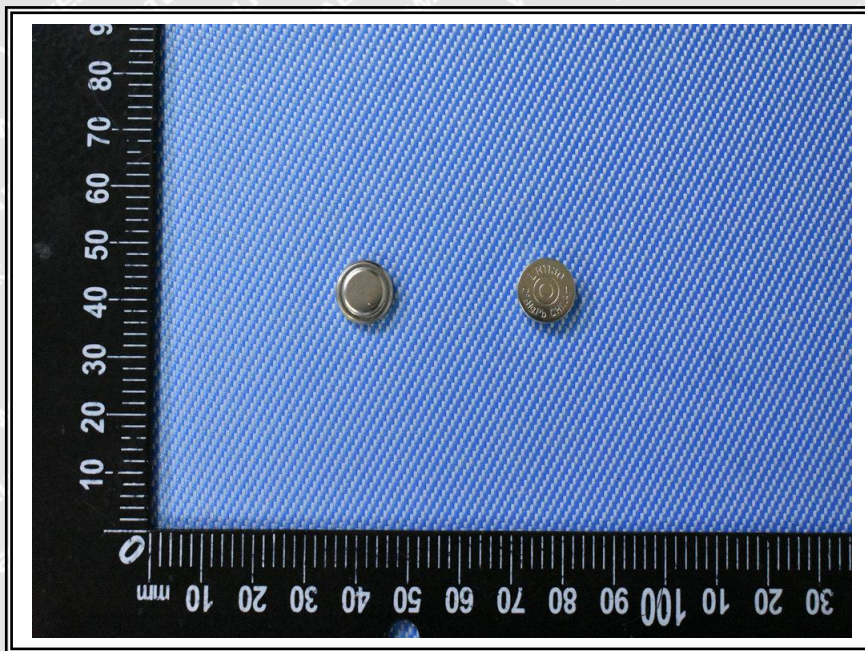
- Mark with the chemical symbol for the metal concerned: Pb
- Print beneath the symbol
- Cover an area of at least ¼ of the size of the symbol

**Test Flowchart:**





**Sample Photo:**



===== End of Report =====

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