

HJ

Standard for Environmental Protection of the People's Republic of China

HJ 2534-2013

In replacement of HJ/T 238-2006 HJ/T 239-2006

Technical Requirement for Environmental Labelling Products Battery

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Foreword

This standard is to mitigate influence on environment and human health during production and use of battery, implementing Law on Environmental Protection of People's Republic of China.

This standard puts requirements on battery's raw materials, production, products, packages and recycles.

This standard has revised Technical Requirement for Environmental Labeling Products-Rechargeable Batteries (HJ/T 238-2006) and Technical Requirement for Environmental Labeling Products-Hg-free Dry Cells and Batteries (HJ/T 239-2006). The main revisions are as follows:

- Standards of Rechargeable Battery and Hg-free Dry Cell and Battery are combined to standard of Battery.
- Applicable scope has been adjusted.
- Requirements for design, production and recycle are added.
- The testing method of heavy metals refers to national standard instead of foreign standard.

This standard is applicable to China Environmental Labelling products certification.

The development of this standard is organized by Department of Science, Technology and Standards, MEP.

Major drafters include Environmental Development Center of MEP, China Industrial Association of Power Sources, Beijing Green Cultural Development Center, Chaowei Power Sources Co., Ltd., Tianneng Battery Group Co., Ltd., Tianjin Lishen Battery Co., Ltd., Jiangsu Haisida Power Source Co., Ltd.

This standard was approved by MEP on January, 13, 2014.

This standard takes effect on March, 1, 2014.

This standard will be explained by Ministry of Environmental Protection.

Standard versions substituted by this one include HJBZ 7-1994, HJ/T 238-2006, HJBZ 9-1995, HJ/T 239-2006.

1. Application Scope

This standard stipulates terminologies, definitions, basic requirements, technical contents and examination method for China Environmental Labelling batteries.

This standard is applicable to primary batteries and storage batteries.

2. Standard Quotation Documents

This standard has quoted articles in the following standards. The effective version of all quotation documents without specific date is applicable to this standard.

GB/T 2900.41-2008 Electrician Terminologies Primary Batteries and Storage Batteries

GB/T 18455 Package Recycling Label

GB/T 20155-2006 Testing of Hg, Cadmium, Lead in Batteries

GB/T 26572 Limit Requirement on Regulated Substances in Electronics Products

3. Terminology and Definition

As in GB/T 2900.41-2008, the following definition is applicable to this standard:

Battery is equipment which transforms chemical energy into electronic energy. It is composed of electrodes, electrolyte, containers, electrode ends and insulated layer normally. It has one or more than one function units as necessary, such as shell, terminal, label and protection fixture.

4. Basic Requirements

4.1 The product quality and safety performance shall meet requirements in relevant standards.

4.2 The pollution discharge of enterprises producing the product must meet the requirements of national or local pollution discharge standards.

4.3 The producer should enhance clean production, and accord with relevant clean production standards.

5. Technical Contents

5.1 No Lead, Mercury and Cadmium should be used as raw material during the production.

5.2 Requirement for producing stage

HCFCs, $C_2H_3Cl_3$, C_2HCl_3 , CH_3CHCl_2 , CH_2Cl_2 , $CHCl_3$, CCL_4 , C_3H_7Br , C_6H_{14} , C_7H_8 and $C_6H_4(CH_3)_2$ should not be used as cleaning solvent.

5.3 Requirement on products

5.3.1 The limit volume of regulated substance in products should comply with GB/T 26572.

5.3.2 Limit volume of heavy metal in products as in table 1.

Table 1 Limit volume of heavy metal in products unit: mg/kg

Heavy metal	Limit Volume
Hg \leq	1
Cd \leq	20
Pb \leq	40

5.4 Packaging requirement

5.4.1 Paper package may use recycled paper.

5.4.2 Package materials should not use HCFCs as vesicant.

5.4.3 The total volume of Pb, Cd, Hg and Cr6+ should not exceed 100mg/kg.

5.4.4 Package should be marked according to GB/T 18455.

5.5 Requirement on recycling of products

Producers should provide relevant information on recycle and reuse of products.

6. Examination Method

6.1 Testing of the content in 5.3.2 should be carried out according to GB/T 20155-2006.

6.2 Other indexes in Technical Contents should be examined by document review and on-site inspection.