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Primary battery material terminology

原电池材料术语

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

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Terminology for galvanic cells

1 Scope

This document defines the terminology used in the field of common primary battery raw and auxiliary materials.

This document applies to applications related to commonly used primary batteries and raw and auxiliary materials technologies.

2 Normative references

This document has no normative references.

3.1 battery

One or more individual battery cells equipped with the necessary devices for use.

Note. The equipment includes the necessary components such as housing, terminals, markings, and protective devices.

[Source. GB/T 2900.41-2008, 482-01-04, with modifications]

3.2 [Single] Battery

It directly converts chemical energy into electrical energy and consists of a basic functional unit composed of electrodes, electrolytes, a container, extremes, and an insulating layer.

[Source. GB/T 2900.41-2008, 482-01-01, modified]

3.3 primary cell

Batteries designed to not be charged.

[Source. GB/T 2900.41-2008, 482-01-02, modified]

4.1 Metal-air battery

A primary battery that uses atmospheric oxygen as the positive electrode active material, metal as the negative electrode active material, and contains an alkaline or salt electrolyte.

[Source. GB/T 2900.41-2008, 482-04-01, modified]

4.2 [Source. GB/T 2900.41-2008, 482-04-02]

Metal-air batteries containing alkaline electrolytes and zinc negative electrodes (4.1).

4.3

A primary cell containing a non-alkaline electrolyte, with manganese dioxide as the positive

electrode and zinc alloy as the negative electrode.

4.4 [Source. GB/T 2900.41-2008, 482-04-03, with modifications]

A primary cell containing an alkaline electrolyte, with manganese dioxide as the positive electrode and zinc alloy as the negative electrode.

4.5

A primary battery containing a non-aqueous electrolyte and a lithium negative electrode.

4.6 [Source. GB/T 2900.41-2008, 482-04-10]

A primary battery containing a non-aqueous electrolyte, with manganese dioxide as the positive electrode and lithium as the negative electrode.

4.7 [Source. GB/T 2900.41-2008, 482-04-09]

A primary battery containing a non-aqueous electrolyte, a positive electrode of carbon fluoride, and a negative electrode of lithium.

4.8 [Source. GB/T 2900.41-2008, 482-04-11]

A primary battery containing a non-aqueous electrolyte, with copper oxide as the positive electrode and lithium as the negative electrode.

4.9 [Source. GB/T 2900.41-2008, 482-04-12]

A primary battery containing a non-aqueous electrolyte, with iron disulfide as the positive electrode and lithium as the negative electrode.

4.10 [Source. GB/T 2900.41-2008, 482-04-13]

A primary cell containing a non-aqueous electrolyte, with thionyl chloride as the positive electrode and lithium as the negative electrode.

4.11

A primary battery containing a non-aqueous electrolyte, with sulfur dioxide as the positive electrode and lithium as the negative electrode.

4.12 Paper-lined battery

A galvanic cell using pulp paper as the separator.

[Source. GB/T 2900.41-2008, 482-04-15, modified]

4.13 Paste-lined battery

A galvanic cell using a starch gel soaked in electrolyte as the separator.

Note. Also see GB/T 2900.41-2008, section 482-04-16, "Paste Battery".

5.1

The amount of charge released by an active material under specified conditions.