

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Secondary cells and batteries – Marking symbols for identification of their chemistry**

**Batteries d'accumulateurs – Symboles de marquage pour l'identification de leur caractéristique chimique**



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## SECONDARY CELLS AND BATTERIES – MARKING SYMBOLS FOR IDENTIFICATION OF THEIR CHEMISTRY

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The text of this International Standard is based on the following documents:

FDIS	Report on voting
21/990/FDIS	21/994/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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## SECONDARY CELLS AND BATTERIES – MARKING SYMBOLS FOR IDENTIFICATION OF THEIR CHEMISTRY

### 1 Scope

This document specifies methods for the clear identification of secondary cells, batteries, battery modules and monoblocs according to their chemistry (electrochemical storage technology).

The markings described in this document are applicable for secondary cells, batteries, battery modules and monoblocs with a volume of more than 900 cm<sup>3</sup>.

The marking of the chemistry is useful for the installation, operation and decommissioning phases of battery life.

Many recycling processes are chemistry specific, thus undesired events can occur when a battery which is not of the appropriate chemistry enters a given recycling process. In order to ensure safe handling during sorting and recycling processes, therefore the battery is marked so as to identify its chemistry.

This document defines the conditions of utilization of the markings indicating the chemistry of these secondary batteries.

The details of markings and their application are defined in this document.

NOTE Nothing in this document precludes the marking of batteries with recycling and chemistry symbols required by state, federal, national or regional laws or regulations, or with a seal under license by a national recycling program.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60896-21:2004, *Stationary lead-acid batteries – Part 21: Valve regulated types – Methods of test*

IEC 60896-22:2004, *Stationary lead-acid batteries – Part 22: Valve regulated types – Requirements*

ISO 1000, *Graphical symbols for use on equipment* (available at <http://www.graphical-symbols.info/equipment>)

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses: