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**NATIONAL OCCUPATIONAL HEALTH STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Technical specifications for solid electrolyte for solid-state
battery for electric vehicle**

放射性神经系统疾病诊断标准

(English Translation)

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Foreword

This document is a standard or guiding technical document.

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.

This document was proposed by the Ministry of Industry and Information Technology of the People's Republic of China.

This document is under the jurisdiction of the National Automotive Standardization Technical Committee (SAC/TC 114).

1 Scope

This document specifies the ionic conductivity, electronic conductivity, electrochemical window, and air stability of solid electrolyte membranes used in solid-state batteries for electric vehicles.

The requirements for moisture content are specified, and the corresponding test methods are described.

This document applies to polymer-based and sulfide-based solid electrolyte membranes used in solid-state batteries for electric vehicles. Other...

For reference, this applies to solid electrolyte membranes.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are listed below.

For references to documents, only the version corresponding to that date applies to this

document; for undated references, the latest version (including all amendments) applies.

document.

GB/T 6283 Determination of Moisture Content in Chemical Products - Karl Fischer Method (General Method) GB/T 45330-2025 Determination of Moisture Content in Cathode Materials for Lithium-ion Batteries-Karl Fischer Coulometric Method the following terms and definitions apply to this document.

blocking electrode

An electrode that can prevent certain charge carriers (electrons or ions) from passing through.

Note: Blocking electrodes are mainly divided into two categories. electron blocking electrodes (blocking electrons but allowing ion conduction) and ion blocking electrodes (blocking ions but allowing electron conduction).

oxidation potential

A physical quantity that undergoes an oxidation reaction (loses electrons) at a certain potential.

Note: The unit of oxidation potential is volt (V).

reduction potential

A physical quantity that undergoes a reduction reaction (gains electrons) at a certain potential.

Note: The unit of reduction potential is volt (V).

air stability

The retention rate of ionic conductivity of a solid electrolyte membrane before and after exposure to air.

Water content

The mass fraction of water in a solid electrolyte membrane.