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

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**Thermal insulation - Heat transfer conditions and properties of
materials - Vocabulary**

绝热 传热条件及材料特性 术语

(English Translation)

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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".

This document adopts ISO 9251:1987 "Adiabatic heat transfer conditions and material properties - Terminology". This document adds a chapter on "Normative References".

The following minimal editorial changes have been made to this document.

--- An index has been added.

1 Scope

This document defines the terminology used in the field of thermal insulation materials to describe heat transfer conditions and material properties.

2 Normative references

This document has no normative references.

3.1 Steady state

A state in which all parameters remain unchanged over time.

3.2 Non-steadystate

The state of relevant parameters as they change over time.

3.4 Transient state

The relevant parameters gradually evolve from the initial state to a steady state or a periodic unsteady state.

3.5 Heat transfer

Energy transfer is achieved through heat conduction, heat convection, heat radiation, or a combination of the above methods.

4.1 Porosity

The ratio of the total pore volume to the total volume of the medium in a porous medium.

Note: Porosity can be defined by formula (1). $\xi = 1 - \frac{(\rho - \rho_g)}{(\rho_s - \rho_g)}$ (1) In the formula. ρ --- Apparent density of the medium; ρ_s --- density of the solid skeleton;