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

GB/T 4132-2023

Replacing GB/T 4132-2015

Thermal insulation - Vocabulary

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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.

This document replaces GB/T 4132-2015 "Thermal Insulation Materials and Related Terms". Compared with GB/T 4132-2015, except for structural adjustments and

In addition to editorial changes, the main technical changes are as follows.

a) Changed the scope (see Chapter 1, Chapter 1 of the 2015 edition);

b) Added some terms and definitions (see 3.1.16, 3.1.17, 3.1.21, 3.1.22, 3.1.29, 3.2.3.5, 3.3.2, 3.3.3.3,

3.3.12.1~3.3.12.4, 3.4.2.3, 3.4.3, 3.4.8, 3.4.10, 3.4.16);

c) Some terms and definitions in the 2015 edition have been deleted (see 2.1.15.1, 2.1.19, 2.1.32~2.1.35, 2.2.7~ in the 2015 edition)

2.2.9, 2.2.16, 2.4.3, 2.6.18, 2.6.19, 2.8.1~2.8.49, 2.9.1~2.9.13, 2.10.1~2.10.31);

d) Some terms and definitions have been changed (see 3.1.4~3.1.6, 3.1.13, 3.1.18.1, 3.1.19.2, 3.1.24, 3.1.28, 3.1.30,

3.1.33, 3.2.2, 3.2.4, 3.2.6, 3.2.8, 3.2.9, 3.3.1, 3.3.3.1, 3.3.3.4, 3.3.4, 3.3.5, 3.3.10.1~3.3.10.3,

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2.7.4, 2.7.16).

This document is equivalent to ISO 9229:2020 "Thermal Insulation Terminology".

This document has made the following minimal editorial changes.

---Index added.

Please note that some content in this document may be subject to patents. The publisher of this document assumes no responsibility for identifying patents.

1 Scope

This document defines terms and definitions for thermal insulation materials, products, components, applications, etc. Some of these terms may be used in other industries or applications.

have different meanings.

2 Normative reference documents

This document has no normative references.

3.1 Thermal insulation materials

3.1.1

A substance used to reduce heat transfer whose insulating properties are determined by its chemical composition, physical structure, or both.

3.1.2

foam plastic cellular plastic

A general term for plastic insulation materials (3.1.1) that have a large number of cells (interconnected or not) distributed throughout to reduce density.

3.1.2.1

Molded polystyrene foam expanded polystyrene; EPS

Using expandable polystyrene resin or its copolymer beads as raw materials, it is molded in a mold and contains a large amount of air-filled closed-cell structure.

Rigid foam plastics (3.1.2) Thermal insulation materials (3.1.1).

3.1.2.2

Rigid foam with closed cell structure made of polystyrene resin or its copolymer as the main component and heated and extruded.

Materials (3.1.2) Insulating materials (3.1.1).

3.1.2.3

Made of natural rubber, synthetic rubber or their blends containing other polymer materials and chemicals modified by organic or inorganic additives

Flexible thermal insulation products made of composites (3.2.1).

3.1.2.4

Phenolic foam; PF

Rigid foam plastic (3.1.2) thermal insulation material (3.1.1) made of phenol and homologous compounds, derivatives, and condensation polymers of aldehydes and ketones.

3.1.2.5

polyethylene foam; polyethylene foam; PEF

Semi-rigid or flexible foam (3.1.2) thermal insulation material (3.1.1) mainly composed of polymers made of ethylene and/or propylene.

3.1.2.6

Polyurethane foam; polyurethane foam; PUR

Rigid or semi-rigid foam (3.1.2) thermal insulation material (3.1.1) with a large number of closed cells made of polyurethane as the main component.