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

GB/T 16763-2023

Replacing GB/T 16763-2012

Classification of shaped insulating refractory products

定形隔热耐火制品分类

(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" Drafting:

This document replaces GB/T 16763-2012 "Classification of Shaped Insulating Refractory Products": Compared with GB/T 16763-2012, except for structural adjustment in addition to general and editorial changes, the main technical changes are as follows:

- a) The classification method of shaped thermal insulation refractory products has been changed (see Chapter 4, Chapter 4 of the:2012 edition);
- b) The marking method has been changed (see Chapter 5, Chapter 5 of the:2012 edition):

This document has been modified to adopt ISO 2245:2006 "Classification of Shaped Thermal Insulating Refractory Products":

Compared with ISO 2245:2006, this document has many structural adjustments: See the comparison list of structural number changes between the two documents:

Appendix A:

Compared with ISO 2245:2006, this document has many technical differences: Vertical single words are used in the outer margins of the clauses involved:

They are marked with a line (|): A list of these technical differences and their causes is shown in Appendix B:

The following editorial changes have been made to this document:

---Change the name of the standard to "Classification of Shaped Insulation and Refractory Products";

---Deleted the note 3:1 in ISO 2245:2006:

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 specifies the classification, test methods and marking methods of shaped insulating and refractory products:

This document applies to shaped insulating refractory products other than refractory fiber products:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 2998 Test method for volume density and true porosity of shaped thermal insulation refractory products (GB/T 2998-2015, ISO 5016:

1997,MOD)

GB/T 5988 Test method for permanent linear change of refractory materials when heated (GB/T 5988-2022, ISO 2478:1987 2005,MOD) GB/T 8170 Numerical rounding rules and expression and determination of limit values GB/T 18930 Refractory terminology (GB/T 18930-2020, ISO 836:2001, MOD)

3 Terms and definitions

The terms and definitions defined in GB/T 18930 and the following apply to this document:

Shaped refractory materials with a true porosity of not less than 45%:

4 Categories

Shaped insulating refractory products are classified according to the heating permanent line change (shrinkage) test temperature and maximum average volume density:

Classification levels can be used in two ways:

- a) Classify by Fahrenheit temperature: Use the test temperature (Fahrenheit) plus 50°F when the heating permanent line change (shrinkage) is not greater than 2% the first two digits of the obtained value, the volume density of the corresponding level should comply with the provisions of Table 1:
- b) Temperature classification by degrees Celsius: Round to 50°C and remove the last digit: