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

GB/T 30757-2024

**Classification of basic dense shaped refractory products
containing from 7% to 50% carbon**

碳含量7%~50%的碱性致密定形耐火制品分类

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting:

This document replaces GB/T 30757-2014 "Classification of basic dense shaped refractory products with residual carbon content of 7% to 50%" and Compared with GB/T 30757-2014, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Added terms and definitions (see Chapter 3);
- b) The classification basis, product types and brands, raw material characteristics, and the names and descriptions of the combination forms have been changed (see Chapter 4,:2014 Edition):
3:1~3:5);
- c) The description of nomenclature has been changed (see Chapter 5, Chapter 4 of the:2014 edition):

This document is modified to adopt ISO 10081-3:2003 "Classification of dense shaped refractory products Part 3: Alkali-based refractory products with a carbon content of 7% to 50% Sexual Products:

This document has the following structural adjustments compared to ISO 10081-3:2003:

- Added Chapter 3 "Terms and Definitions";
- 4:2 corresponds to 3:2 and 3:3 in ISO 10081-3:2003:

The technical differences between this document and ISO 10081-3:2003 and their reasons are as follows:

- Added normative reference document GB/T 18930 (see Chapter 3) to facilitate the

search and use of terms;

---4:1a) corresponds to 3:1a) and 3:1b) in ISO 10081-3:2003: The classification basis is changed to four types, and the type and brand are merged to make the content the connection is more coherent;

--- In 4:2, select the applicable national standard to replace the international standard, GB/T 17732 to replace ISO 10060, GB/T 21114 to replace ISO 12677 and GB/T 34332 replace ISO 10058, and add the applicable GB/T 16555 test method:

The following editorial changes were made to this document:

--- In order to coordinate with the existing standards, the name of the standard is changed to "Classification of basic dense shaped refractory products with a carbon content of 7% to 50%";

--- Deleted Note 1 in ISO 10081-3:2003 "Scope":

1 Scope

This document specifies the classification and nomenclature of basic dense shaped refractory products with a carbon content of 7% to 50%:

This document is applicable to basic dense shaped refractory products with a carbon content of 7% to 50%:

Note: All products can be wrapped with metal sheets on the outside and reinforced with metal sheets or metal fibers on the inside:

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document:

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document:

GB/T 16555 Chemical analysis methods for refractories containing carbon, silicon carbide and nitride GB/T 17732 Test methods for dense shaped carbon-containing refractory products (GB/T 17732-2008, ISO 10060:1993, MOD) GB/T 18930 Terminology of Refractory Materials GB/T 21114 Refractory materials X-ray fluorescence spectrochemical analysis Fused glass disk method (GB/T 21114-2019, ISO 12677:2011, MOD) GB/T 34332 Chemical analysis methods for magnesite and dolomite refractory products (GB/T 34332-2017, ISO 10058-1:2008, ISO 10058-2:2008, ISO 10058-3:2008, MOD)

3 Terms and definitions

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

4 Categories

4.1

Classification basis Basic dense shaped refractory products with a carbon content of 7% to 50% are classified according to the following four criteria:

- a) Product type and brand;
- b) raw material characteristics;
- c) the form of combination;
- d) Post-processing:

4.2

Product types and brands the following general symbols are used to indicate the types of products:

---Magnesium carbon (MC);

---Magnesium calcium carbon (MLC) (containing lime and/or synthetic MgO-CaO co-sintered materials);