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

GB/T 4513.3-2017

**Monolithic (unshaped) refractory products -- Part 3:
Characterization as received**

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Foreword

GB/T 4513 "amorphous refractory" includes the following eight sections.

- Part 1. Introduction and classification;
- Part 2. Sampling;
- Part 3. Basic characteristics;
- Part 4. Determination of fluidity of castables;
- Part 5. Sample preparation and pretreatment;
- Part 6. Determination of physical properties;
- Part 7. Determination of preforms;
- Part 8. Determination of special properties.

This section GB/T 4513 Part 3.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the redrafted law Amendment uses ISO 1927-3.2012 "amorphous refractory materials Part 3. Basic characteristics."

This part of the structure compared with ISO 1927-3.2012 more adjustments, Appendix A lists this part of ISO 1927-3.2012

Chapter number control list.

This section there is a technical difference compared with ISO 1927-3.2012, Appendix B lists this part of ISO 1927-3.2012

Technical differences and their causes list.

Please note that some of this document may be patentable. The issuing agencies of this

document do not bear the responsibility of identifying these patents.

This part of the National Refractories Standardization Technical Committee (SAC/TC193) and focal point.

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1 Scope

This section GB/T 4513 specifies unshaped refractory sampling, chemical composition determination, particle size distribution test, water content test may be

Plasticity index test and test report.

This section applies to castable (dense and heat insulation), spray paint, shotcrete, spray material, dry vibrating material and ramming material.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 4513.1 amorphous refractory - Part 1 Introduction and classification (GB/T 4513.1-2016, ISO 1927-1.2012,

MOD)

GB/T 4513.2 amorphous refractory part 2. Sampling (GB/T 4513.2-2012, ISO 1927-2.2012, IDT)

GB/T 4984 zirconium containing refractory chemical analysis method

GB/T 5069 magnesium aluminum refractory chemical analysis methods

GB/T 5070 chromium-containing refractory chemical analysis methods

GB/T 6005 Test sieve wire mesh, perforated plate and electroformed sheet sieve basic dimensions (GB/T 6005-

2008, ISO 565.1990, MOD)

GB/T 6900 aluminum silicon refractory chemical analysis methods

Methods for chemical analysis of carbonaceous, silicon carbide, nitride refractory materials

GB/T 16555

GB/T 21114 refractories X-ray fluorescence spectrochemical chemical analysis cast glass method (GB/T 21114-2007,

ISO 12677.2003, MOD)

GB/T 32177 Refractory materials Determination of B₂O₃ (GB/T 32177-2015, ISO 21078-1.2008, ISO 21078-2.

2006, MOD)

GB/T 32179 refractory chemical analysis wet method, atomic absorption spectrometry (AAS) and inductively coupled plasma atomic emission

General requirements for spectrometry (ICP-AES) (GB/T 32179-2015, ISO 26845.2008, MOD)

3 sample

According to GB/T 4513.2 requirements for sampling, according to the needs of each independent test project to prepare the amount of test samples.

4.1 Sample Preparation

If ramming material supplied is wet, dry the sample according to 5.5.1 (see Chapter 3 for sampling methods). All samples must be round

Cone quadripped samples and ground the samples to the required particle size for chemical analysis.

Note. Chemical analysis includes the determination of ablation.