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

GB/T 4513.6-2017

**Monolithic (unshaped) refractory products -- Part 6:
Measurement of physical properties**

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Foreword

GB/T 4513 "amorphous refractory" is divided into 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 6.

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

This section uses the redrafted law Amendment uses ISO 1927-6.2012 "amorphous refractory material Part 6. Physical properties of the test set".

This part of the structure compared with ISO 1927-6.2012 compared to more adjustment, this section is listed in Appendix A and ISO 1927-6.

2012 chapter number control list.

This section there are technical differences compared with ISO 1927-6.2012, the provisions

of these differences have been passed in the outer margin of the page margin

The vertical line (|) is marked. Appendix B lists the technical differences between this part and ISO 1927-6:2012 and its causes

Table.

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.

This section is responsible for the drafting unit. Sinosteel Luoyang Refractory Research Institute Co., Ltd. Tongda Refractory Technology Co., Ltd., Shandong

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1 Scope

This section GB/T 4513 specifies the physical properties of amorphous refractory testing methods.

This section applies to the heat treatment before and after the heat treatment of dense castable, insulation castable, refractory ramming material, refractory plastic and dry 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 2997 dense shaped refractory products bulk density, apparent porosity and true porosity test method (GB/T 2997-2015,

ISO 5017:2013, MOD)

GB/T 3001 refractory room temperature bending strength test method (GB/T 3001-2007, ISO 5014:1997, MOD)

GB/T 3002 refractory high temperature bending strength test method (GB/T 3002-2004, ISO 5013:1985, MOD)

GB/T 4513.5 amorphous refractory - Part 5. Preparation and pretreatment of specimens (GB/T 4513.5-2017, ISO 1927-

5.2012, MOD)

GB/T 5071 refractory material density test method (GB/T 5071-2013, ISO 5018.1983, MOD)

GB/T 5072 refractory materials at room temperature compressive strength test method (GB/T 5072-2008, ISO 8895.2004, ISO 10059-

1.1992

GB/T 5073 refractory material creep test method (GB/T 5073-2005, ISO 3187.1989, MOD)

GB/T 5988 refractory heating permanent change test method (GB/T 5988-2007, ISO 2478.1987

ISO 2477.2005, MOD)

GB/T 5989 Refractory materials - Softening temperature test method Differential temperature rise method (GB/T 5989-2008, ISO 1893.

2005, IDT)

YB/T 370 Refractory materials - Test method for softening temperature

3.1 The scope of application

Geometrically determined, suitable for green, dry and heat treated specimens. The condition of the specimen shall be recorded in the test report.

3.2 Sample

Formed specimens should be one of the following.

A-shaped. 230 mm x 114 mm x 64 mm; B-shaped. 230 mm x 64 mm x 54 mm; C-shaped. 230 mm x 64 mm x

64mm; D shape. 160mm x 40mm x 40mm.

In accordance with the relevant provisions of GB/T 4513.5 Preparation and storage of samples.

NOTE For ram and dry materials, a cylindrical specimen with a diameter of 50mm +/- 1mm and a height of 50mm +/- 1mm may be selected instead.