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

GB/T 34175-2017

Determination of sulfur in refractory products

耐火材料中硫含量的测定

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses redrafted Law Amendment uses ISO 14720-1:2013 "Ceramic raw materials and alkaline materials, powder and granular non-oxidized Determination of sulfur content of raw ceramic materials and alkaline materials - Part 1. Determination of the melting temperature of induction furnace by infrared test "and ISO 14720-2:2013 "Determination of the sulfur content of ceramic raw materials and alkaline materials powders and granular non-oxidizing ceramic raw materials and alkaline materials - Part 2. Determination of sulfur content in oxygen Flow after combustion using inductively coupled plasma-atomic emission spectrometry (ICP-OES) or ion chromatography ".

This standard compared with ISO 14720-1:2013 and ISO 14720-2:2013 in the structure of more adjustment, appendix B lists the Standard and ISO 14720-1:2013 and ISO 14720-2:2013 subsection number control list.

This standard and ISO 14720-1:2013 and ISO 14720-2:2013 there are technical differences, Appendix C lists the standard Technical differences between ISO 14720-1:2013 and ISO 14720-2:2013 and their causes.

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 standard by the National Refractories Standardization Committee (SAC/TC193) and focal point.

This standard was drafted unit. Sinosteel Luoyang Refractory Research Institute Co., Ltd., Beijing Lear High Temperature Materials Co., Ltd., country Ceramic and refractory product quality supervision and inspection center.

1 Scope

This standard specifies the determination of sulfur content in refractory materials, other related materials can also use this standard.

This standard applies to the determination of sulfur content in refractory materials. Table 1 shows the applicable range of different detection methods.

Table 1 test methods applicable scope

Determination of sulfur content (mass fraction) /% High frequency furnace combustion
infrared absorption method 0.005 ~ 10 Inductively Coupled Plasma Atomic Emission
Spectrometry 0.005 ~ 10 Gravimetric method 0.01 ~ 5

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 4513.2 amorphous refractory part 2. Sampling (GB/T 4513.2-2017, ISO 1927-2:2012, IDT) GB/T 6682 analytical laboratory water specifications and test methods (GB/T 6682-2008, ISO 3696:1987, MOD) GB/T 8170 rounded repair rules and limit values of the representation and judgment GB/T 10325 Shaped refractory products sampling inspection rules (GB/T 10325-2012, ISO 5022:1979, NEQ) GB/T 12806 laboratory glassware single standard line volumetric flask (GB/T 12806-2011, ISO 1042:1998, NEQ) GB/T 12808 laboratory glassware single standard pipette (GB/T 12808-2015, ISO 648:1977, NEQ) GB/T 17617 refractory raw materials and amorphous refractory samples (GB/T 17617-1998, neqISO 8656-1:1988)

3 Instruments

3.1

high-frequency furnace burning infrared absorption carbon sulfur instrument.

3.2

Analysis Balance. Dividing value 0.1mg.

3.3

Crucibles such as graphite or alumina.

3.4

Electric furnace. Furnace temperature can be transferred to $1100\text{ }^{\circ}\text{C} \pm 20\text{ }^{\circ}\text{C}$.

3.5

Inductively Coupled Plasma Emission Spectrometer. Continuous or simultaneous emission spectrum, short wavelength available 180nm.

3.6

platinum crucible.

3.7

capacity bottle. Comply with GB/T 12806 provisions of the A-level requirements.

3.8

Pipette. Complies with Class A requirements of GB/T 12808.

4.1 Sampling

Laboratory samples were taken according to GB/T 10325, GB/T 17617 or GB/T 4513.2.