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

GB/T 32179-2015

Chemical analysis of refractories -- General requirements for wet chemical analysis, atomic absorption spectrometry (AAS) and inductively coupled plasma atomic emission spectrometry (ICP-AES) methods

耐火材料化学分析 湿法、原子吸收光谱法（AAS）和电感耦合等离子体原子发射光谱法（ICP-AES）的一般要求

(English Translation)

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Foreword

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

This standard uses redrafted Law Amendment uses ISO 26845:2008 "Refractories wet chemical analysis, atomic absorption spectrometry (AAS) and inductively coupled plasma atomic emission spectrometry (ICP-AES) General requirements. " this standard and ISO 26845:2008, compared with more adjustment in the structure, listed in Appendix A of this standard and ISO 26845:2008 Chapter numbers control list.

This standard and ISO 26845:2008 technical differences exist compared to the terms of these differences have been involved in the blank space by the outer margin the vertical line (-) were marked. Listed in Appendix B of this standard and 26845 ISO .2008 technical differences and the reason list.

--- On normative references, this standard has been adjusted technical differences, in order to adapt our technical conditions, the adjusted situation Focus is reflected in the status of Chapter 2, "Normative references", the specific adjustments are as follows.

- equivalents using the international standard GB/T 4470-1998 instead of the ISO 6955. 1982;
- Modify with international standards of GB/T 6003.1-1998 instead of ISO 3310-1:2000;
- increase the reference GB/T 8170;
- increase the reference GB/T 8322;
- increase the reference GB/T 10325;
- increase the reference GB/T 17617;
- Modify with international standards of GB/T 18930-2002 instead of ISO 836:2001;
- Delete ISO 31-0;
- Delete ISO 5022;

- Delete ISO 6282;
- Delete ISO 6535-1;
- Delete ISO 6535-2;
- Delete ISO 6535-3;
- Delete ISO 8656-1.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This standard by the National Standardization Technical Committee Refractories (SAC/TC193) and focal points.

This standard is mainly drafted by. Sinosteel Luoyang Institute of Refractories Co., Ltd., Beijing Lier High Temperature Materials Co., Ltd., Wuhan Research Institute of China Metallurgical Metallurgical Construction Co., Ltd.

1 Scope

This standard specifies the refractories chemical analysis of relevant terms and definitions, equipment, reagents, sampling, sample quality determination, loss on ignition, Calculation results, test results showed that the use of checks and tests and report test results.

This standard applies to wet through, AAS and ICP-AES for general requirements for chemical analysis standard refractory products and raw materials.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 4470 flame emission, atomic absorption and atomic fluorescence spectrometry term (GB/T 4470-1998, ISO 6955.

1982, IDT)

GB/T 6003.1 Test sieves - Technical requirements and testing - Part 1. Test sieves of metal wire braid (GB/T 6003.1-2012, ISO 3310-1:2000, MOD) GB/T 8170 repair value expressed about the rules and limit values \u200b\u200band judgment GB/T 8322 molecular absorption spectrometry term (GB/T 8322-2008, ISO 6286. 1982, NEQ) GB/T 10325, shaped refractory products acceptance sampling inspection rules (GB/T 10325-2012, ISO 5022. 1979, NEQ) GB/T 17617 refractory raw materials and monolithic refractories sampling (GB/T 17617-1998, ISO 8656-1. 1988, NEQ) GB/T 18930 refractory term (GB/T

18930-2002, ISO 836:2001, MOD)

3 Terms and Definitions

GB/T 18930 and defined by the following terms and definitions apply to this document.

Unshaped refractories dry material dry unshaped refractories Excluding liquid particles and monolithic refractories (or) powder.

Monolithic refractories wet material wet unshaped refractories Unshaped refractory particles containing the liquid and (or) powder.

LAS zirconium refractory alumina-zirconia-silica refractories Chemical composition containing alumina (mass fraction of 1% to 80%), zirconia (including hafnium oxide) (mass fraction of 5% to 50%) and two Silicon (mass fraction of 0.1% to 45%) of the refractory oxide.