



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

GB/T 17617-2018

Rule of sampling and inspection for refractory raw materials

Issued on: February 6, 2018

Implemented on: January 1, 2019

Issued by: AQSIQ; SAC

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Foreword

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

This standard replaces GB/T 17617-1998 "Rule of sampling and inspection for refractory raw materials".

Compared with GB/T 17617-1998, the main technical changes of this standard are as follows.

- In the scope of the standard, CANCEL the content related to the sampling of "amorphous refractory materials"; EXPAND the original single "sampling" to "sampling inspection" (see Chapter 1);
- REVISE the original terms and definitions; ADD some necessary terms and definitions (see Chapter 3);
- RETAIN the sampling scheme based on the coefficient of variation as the basis for sampling, as the sampling method for "bulk refractory raw materials"; MAKE supplementing and revision of them (see 5.4);
- ADD the relevant provisions for the laboratory to separate the samples for quality characteristics testing from the original laboratory samples (see 5.7.2);
- ADD the relevant content of product quality assessment based on sample test results (see 5.9);
- ADD the sampling inspection scheme for packaged particle size graded materials (see Chapter 6);
- SUPPLEMENT and MODIFY the content of sampling inspection precision analysis in the original standard text, as a normative appendix of this standard (see Appendix C);
- DELETE the Appendix "Empirical categories of coefficient of variation of testing performance of monolithic refractory materials" of the 1998 edition;
- ADD the normative Appendix on empirical estimation of coefficient of variation of sample quality characteristics of refractory raw materials (see Appendix D);
- RETAIN the Appendix on the method of sample reduction of refractory raw materials; MAKE necessary revisions (see Appendix E).

This standard modifies and adopts ISO 8656-1.1988 "Refractory products - Sampling of raw materials and unshaped products - Part 1. Sampling scheme" by redrafting method. Compared with ISO 8656-1.1988, this standard has more structural adjustments. Appendix A lists the comparison of chapter and article numbers between this standard and ISO 8656-1.1988; Appendix B lists the main technical differences

between this standard and ISO 8656-1.1988.

The following editorial modifications have been made for ease of use.

- MODIFY the name of standard.

This standard was proposed by AND shall be under the jurisdiction of the National Technical Committee for Standardization of Refractory Materials (SAC/TC 193).

The drafting organizations of this standard. Metallurgical Industry Information Standards Research Institute, Sinosteel Luoyang Refractory Research Institute Co., Ltd., MCC Jiao Nai Engineering Technology Co., Ltd., Zhejiang Zili New Materials Co., Ltd., Zhengzhou Ruitai Refractory Technology Co., Ltd., Jiangsu Jingxin New Materials Co., Ltd., MCC Group Building Research Institute Co., Ltd., Wuhan Weilin Technology Co., Ltd.

1 Scope

This standard specifies the terms and definitions, general principles, sampling inspection of bulk refractory raw materials, sampling inspection of packaged particle size graded materials, sampling inspection reports, etc. for sampling inspection of refractory raw materials.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) is applicable to this standard.

GB/T 6005 Test sieves - Metal wire cloth, perforated metal plate and electroformed sheet - Nominal sizes of openings

3 Terms and definitions

The terms and definitions, as defined in GB/T 18930, as well as the following terms and definitions, apply to this document.

When sampling and testing bulk refractory raw materials, all the increments taken

from a part of the inspection batch of products and mixed together, to obtain a sample to represent the part of the products.

4 General

During sampling, sample preparation, sample transfer and storage, care shall be taken not to change the test performance of the original state of the material, and to prevent any change in the properties to be tested. For example, when collecting samples for moisture detection, the sampler shall be made of non-hygroscopic materials, meanwhile the sample shall be sealed immediately after collection.

5 Sampling inspection of bulk refractory raw materials

For bulk refractory raw materials that have not been graded, the products of a delivery batch shall be inspected in batches according to the following conditions.

6 Sampling inspection of packaged particle size graded materials

Packaged refractory raw materials shall be inspected in batches according to the following requirements.

7 Sampling inspection report

The report shall include the following contents.

Appendix A

(Informative)

Correspondence of chapter and clause numbers between this standard and ISO 8656-1.1988

Appendix B

(Informative)

Technical differences between this standard and ISO 8656-1.1988

Appendix C

Supplement and modify the contents of sampling inspection precision analysis in the original standard text, as a normative appendix of this standard