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BLACK METALLURGICAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

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YB/T 081-2013

Replacing YB/T 081-1996

Rule for rounding off of numerical values and judgment of testing values for technical standards of metallurgy

冶金技术标准的数值修约与检测数值的判定

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Table of Contents

Foreword.....	3
1 Scope.....	4
2 Normative references.....	4
3 Terms and definitions.....	4
4. Rounding-off rules of testing values or its calculated values in technical standards of metallurgy.....	4
5 The comparison method between testing values or its calculated values and numerical value limit specified by the standard.....	5
6. Rounding-off key points of the testing values or its calculated value of various performance in technical standards of metallurgy.....	7
7 The coordination and connection requirements of product standards and test method standards for the rounding interval of index or parameter values	8

Foreword

This standard is drafted according to the rules given in GB/T 1.1 2009.

This standard replaces YB/T 081 1996 "Rule for rounding off of numerical values and judgment of testing values for technical standards of metallurgy".

As compared with YB/T 081 1996, the main technical changes are as follows:

- Add "terms and definitions" (see Chapter 3);
- Delete the relevant requirements of carrying out numerical values rounding-off department (see 1996 version 3.14 and 3.1.5);
- Modify the compiling format of judgment method of numerical values (see Chapter 5, 1996 version 3.2);
- Modify the coordination and connection requirements of product standards and test method standards for the rounding interval of index or parameter values (see Chapter 7, 1996 version Chapter 5).

This standard was proposed by China Iron and Steel Association.

This standard shall be under the jurisdiction of National Steel Standardization Technical Committee (SAC/TC 183).

The drafting organization of this standard: Metallurgical Industry Information Standards Institute.

The main drafters of this standard: Yi Yan, Dai Qiang, Hou Jie.

This standard was first released in May 1996.

Rule for rounding off of numerical values and judgment of testing values for technical standards of metallurgy

1 Scope

This standard specifies the principle and the rounding-off key points of carrying out rounding off of numerical values and judgment of testing values or its calculated values in metallurgical standardization activities, and the coordination and connection requirements of product standards and test method standards for the rounding interval of index or parameter values.

This standard applies to the compiling of all kinds of technical standards of metallurgy or relevant documents and the judgment of testing values or its calculated values.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this document. For undated references, the latest version (including all amendments) applies to this document.

GB/T 228.1-2010 Metallic materials - Tensile testing - Part 1: Method of test at room temperature

GB/T 8170-2008 Rules of rounding off for numerical values & expression and judgment of limiting values

3 Terms and definitions

Terms and definitions defined in GB/T 8170-2008 apply to this document.

4. Rounding-off rules of testing values or its calculated values in technical standards of metallurgy

4.1 In the activities of revising and implementing technical standards of metallurgy or related documents, determine a variety of indexes and parameters; for the testing values or its calculated values, when rounding off is

5.4 Comparison of two judgment methods

Examples of the comparison results are shown in Table 1, which compare the testing values or its calculated values with the specified numerical value limit in different situations using full numerical comparison method and rounding-off value comparison method. For the same numerical value limit, if it is satisfactory in itself, full numerical comparison method is relatively stricter than rounding-off value comparison method.

6. Rounding-off key points of the testing values or its calculated value of various performance in technical standards of metallurgy

6.1 Chemical Analysis

The measured values of elements obtained through chemical analysis shall be rounded off so that the numerical digit identified by numerical value shall be in accordance with the numerical digit identified by chemical composition numerical value specified in the corresponding product standards or relevant documents.

6.2 Mechanical Property

6.2.1 If the standard or relevant documents do not specify the rounding interval, the tensile test results of metal materials shall be rounded off according to the provisions of Table 2.

6.2.2 If the standard or relevant documents do not specify the rounding interval, the impact test values of metal materials shall be rounded off according to the following requirements:

- a) When impact absorbed energy is no less than 10 J, round off to 1J;
- b) When impact absorbed energy is less than 10 J, round off to 0.5 J.

6.2.3 If the standard or relevant documents do not specify the rounding interval, the mechanical property values of refractory and carbon materials shall be rounded off according to the following requirements.

- a) When bending and compressive strength is no greater than 100 MPa, round off to 0.1 MPa;
- b) When bending and compressive strength is greater than 100 MPa, round off to 1 MPa.

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