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

GB/T 28369-2012

**Ferroalloys -- Experimental methods for the evaluation of the
quality variation and methods for checking the precision of
sampling**

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Foreword

This standard rule according to GB/T 1.1-2009 given draft.

This revised standard adopts ISO 7087. 1984 "ferro-alloys - Assessment of quality variation and test methods for checking the precision of sampling" (in English).

The standard structure and technical content (except document Normative) and ISO 7087. 1984 is consistent; normative references carve

Do not replace the corresponding ISO standards with the corresponding national standards. with the GB/T 28372 instead of ISO 3713, replaced by GB/T 4010

ISO 4552, using GB/T 2272 instead of ISO 5445, using GB/T 3795 instead of ISO 5446, using GB/T 4008 instead of ISO 5447,

With GB/T 5683 instead of ISO 5448, using GB/T 4009 instead of ISO 5449, using GB/T 3648 instead of ISO 5450, with

GB/T 4139 instead of ISO 5451, using GB/T 3649 instead of ISO 5452, using GB/T 7737 instead of ISO 5453, using GB/T 3282

Instead of ISO 5454, using GB/T 18249 instead of ISO 7347, using GB/T 28371 instead of ISO 7373.

The standard proposed by China Iron and Steel Association.

This standard by the national pig iron and ferroalloy Standardization Technical Committee (SAC/TC318) centralized.

This standard was drafted. China Steel Group Co., Ltd., Metallurgical Industry Information Standards Institute Jilin Ferroalloy.

1 Scope

This standard specifies the test method for evaluating the quality of ferroalloy fluctuations,

in order to determine the relevant criteria described in the random sampling and sample classification

Parameters. It also provides for the inspection and classification random sampling sampling accuracy.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated edition applies to this article

Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2272 ferrosilicon (GB/T 2272-2009, ISO 5445. 1980, MOD)

GB/T 3282 ferrotitanium (GB/T 3282-2006, ISO 5454. 1980, MOD)

GB/T 3648 tungsten iron

GB/T 3649 ferromolybdenum (GB/T 3649-2008, ISO 5452. 1980, MOD)

GB/T 3795 ferromanganese (GB/T 3795-2006, ISO 5446. 1980, MOD)

GB/T 4008 manganese silicon alloy (GB/T 4008-2008, ISO 5447. 1980, MOD)

GB/T 4009 SILICOCHROMIUM (GB/T 4009-2008, ISO 5449. 1980, MOD)

GB/T 4010 ferroalloy chemical analysis and preparation of samples (GB/T 4010-1994, ISO 4552. 1987, MOD)

GB/T 4139 ferrovanadium (GB/T 4139-2004, ISO 5451. 1980, MOD)

GB/T 5683 ferrochrome (GB/T 5683-2008, ISO 5448. 1981, MOD)

GB/T 7737 Ferroniobium

GB/T 18249 Check ferroalloy sampling and test methods of sample preparation deviation (GB/T 18249-2000, eqvISO 7347. 1987)

Test methods for accuracy GB/T 28371 alloy sample checks and dividing (GB/T 28371-2012, ISO 7373. 1987, MOD)

GB/T 28372 ferroalloy sampling and sample preparation General (GB/T 28372-2012, ISO 3713. 1987, MOD)

General requirements 3 tests

3.1 Quality fluctuations

Quality Evaluation fluctuations ferroalloy uniformity of scale, with a standard deviation σ represented to represent. It should be among a random sample of parts like

Standard from standard deviation (σ_{mai}) sampling and grading of the packaging unit between deviation (σ_{mab}) and the standard deviation within the packaging unit (σ_{maW}).

Note 1. The random sample suitable for bulk (can not be broken or crushed) delivery ferroalloy batch.

Note 2. The classification applies to the sample delivery batch packaging unit.

3.2 Quality Characteristics

For determining the quality characteristics of quality fluctuations are given in the relevant standard ferroalloy sampling method.