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

GB/T 24233-2009

**Manganese and chromium ores -- Experimental methods for
evaluation of quality variation and methods for checking the
precision of sampling**

锰矿石和铬矿石 评定品质波动和校核取样精密度的试验方法
(English Translation)

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Foreword

This standard is equivalent to using ISO 8542. 1986 "Standard Test Method for checking the quality fluctuations and sampling precision manganese and chrome ore assessment." this standard and ISO 8542. Comparison of 1986, mainly made the following editorial changes.

--- "This International Standard" by "this standard";

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Delete international standards foreword.

The standard proposed by China Iron and Steel Association.

This standard by the National Standardization Technical Committee of pig iron and ferroalloy.

This standard was drafted. Ningbo Inspection and Quarantine Institute of Science and Technology, Tianjin Entry-Exit Inspection and Quarantine of Guangdong, Metallurgical Industry Information Standards Institute.

1 Scope

This standard specifies the assessment of natural or processed manganese, chrome ore quantitative methods of test quality fluctuations and related standards used to take Sampling procedures defined sample and secondary sampling time. It also provides that

when sampling systems and secondary quantitative sampling check sampling precision test method.

Note: When assessing the quality of the sampling timing system volatility sampling procedures must be established on the basis of sampling timing system.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 24243 chrome ore samples taken parts (GB/T 24243-2009, ISO 6153. 1989, IDT)
ISO 4296-1 manganese ore sampling - Part 1. Sampling increment ISO 4296-2 manganese ore sampling - Part 2. sample preparation

3.1 Quality fluctuations

Fluctuations in ore quality level that is uneven in standard deviation determined by sigma represents. When quantitative systematic sampling, or take part in the layer Sample standard deviation of the interval represented by sigma_W; when two samples, among vans, trucks, containers with a standard deviation sigma_b expressed in the truck and standard deviation sum_W represented by the difference.

3.2 Quality Characteristics

To determine the quality characteristics of quality manganese ore fluctuations choice is the whole content of manganese, chrome ore to determine the quality characteristics of quality variation selected it is chromium oxide content.

Note: Other quality properties such as moisture content, particle size distribution, etc. may also be considered.

3.3 Determine the quality fluctuations

Volatility is determined by the quality of each type of ore specified in the relevant standards.

3.4 Test consignment

It recommends that the selection of the weight of 3000t 3000t or more consignment do the test, with 50 or more than 50 parts of the composition of a sample Bulk sample.

3.5 Sampling and sample method

Sample tests, sample preparation, chemical analysis and related tests to perform in accordance with relevant standards.

3.6 Scale test

The test shall be based on the consignment, and be repeated 5 times. For systematic sampling, testing must include part or whole Consignment. For the two samples, the composition must include a section M truck consignment of section 10.

3.7 Test Frequency

We recommend quality fluctuation test each type of ore at a predetermined sampling intervals, such as once every two years or decisions based on need.

GB/T 24233-2009/ISO 8542. 1986