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

GB/T 14949.8-2018

Replacing GB/T 14949.8-1994

**Manganese ores -- Determination of hygroscopic moisture
content -- Gravimetric method**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Principle

4 instruments and reagents

5 sampling and sample preparation

Foreword

GB/T 14949 "Manganese ore chemical analysis method" is divided into 12 parts.

--- GB/T 14949.1 manganese ore chemical analysis method for the determination of chromium content;

---GB/T 14949.2 manganese ore chemical analysis method for the determination of nickel content;

--- GB/T 14949.3 manganese ore chemical analysis method for the determination of cerium oxide content;

---GB/T 14949.4 Determination of vanadium content by chemical analysis method of manganese ore;

--- GB/T 14949.5 manganese ore chemical analysis method for the determination of titanium content;

--- GB/T 14949.6 Determination of the amount of copper, lead and zinc in the chemical analysis of manganese ores;

---GB/T 14949.7 Determination of the amount of sodium and potassium in the chemical analysis method of manganese ore;

---GB/T 14949.8 Determination of the wet water content of manganese ore;

---GB/T 14949.9 Determination of sulfur content in chemical analysis of manganese ores;

--- GB/T 14949.10 Manganese ore chemical analysis method Determination of cobalt content;

--- GB/T 14949.11 manganese ore chemical analysis method for the determination of carbon dioxide;

---GB/T 14949.12 Determination of the combined water content of the chemical analysis

method of manganese ore.

This part is the eighth part of GB/T 14949.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 14949.8-1994 "Determination of wet water storage capacity of manganese ore chemical analysis method". This part and GB/T 14949.8-

Compared with.1994, the main technical changes are as follows.

--- Modify the standard name from "Determination of the amount of wet water stored in the chemical analysis method of manganese ore" to "Determination of the amount of wet ore in manganese ore

Weight method" (see cover, cover of the.1994 edition);

--- Revised the scope of the description and content, added "the results of the results for the analysis of the analysis results of wet water sample components" (see Chapter 1, Chapter 1 of the.1994 edition);

--- Increased the content of normative references (see Chapter 2);

---Modified the description and content of the principle (see Chapter 3, Chapter 2 of the.1994 edition);

--- Added "analytical balance" [see Chapter 4 a)], "Dryer" [see Chapter 4 d)];

--- Increased requirements for sampling and sample preparation (see Chapter 5);

--- Added "preparation for weighing bottles" (see 6.1);

--- Revised the requirements for sample weight (see 6.2, 5.1 of the.1994 edition);

--- Increased result calculation value revision requirements (see Chapter 7);

--- Revised the requirement for tolerance (see Chapter 8, Chapter 7 of the.1994 edition);

--- Added requirements for test reports (see Chapter 9).

This section uses the redrafting method to modify the use of ISO 310.1992 "manganese ore and manganese concentrate analysis samples in the determination of wet water content

Weight method.

This section is structurally modified compared to ISO 310.1992, which is listed in Appendix A and ISO 310.1992.

Check the list.

There are technical differences between this part and ISO 310.1992. The technical aspects

of this part and ISO 310.1992 are given in Appendix B.

A list of differences and their causes.

This section also made the following editorial changes.

--- In line with the existing standard series, the standard name was changed to "Measurement Weight Method for Manganese Ore Wet Water Storage".

This part was proposed by the China Iron and Steel Association.

This part is under the jurisdiction of the National Iron and Iron Alloy Standardization Technical Committee (SAC/TC318).

This section drafted by. Shanghai Entry-Exit Inspection and Quarantine Bureau Industrial Products and Raw Materials Testing Technology Center, China University of Geosciences (Wuhan), Metallurgy

Gold Industry Information Standards Institute.

1 Scope

This part of GB/T 14949 specifies the method for determining the amount of wet water by gravimetric method.

This section applies to the determination of the amount of wet water in manganese ore samples, the measurement range (mass fraction). 0.10% ~ 10.00%, the results are used for

Correction of the analysis results of the wet sample components.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

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

GB/T 8170 Numerical Rounding Rules and Representation and Determination of Limit Values

ISO 4296-1 Manganese ore sampling Part 1. Sample sampling
(Manganeores-Sampling-Part 1. Increment
Sampling)

ISO 4296-2 Manganese ore sampling - Part 2. Preparation of samples
(Manganeores-Sampling-Part 2. Prepa-
Rationofsamples)

3 Principle

The sample pre-dried and equilibrated in air is placed in a drying oven at 105 ° C ~ 110 ° C to dry to a constant weight, according to the sample before and after drying

The mass change calculates the amount of wet water.

4 instruments and reagents

In addition to general laboratory equipment, it also includes.

- a) Analyze the balance, the sensitivity is 0.1mg;
- b) flat weighing bottle, 30mm in diameter, with a tight grinding cap;
- c) the oven can maintain the temperature in the range of 105 ° C ~ 110 ° C;
- d) Dryer.

5 sampling and sample preparation

Laboratory samples for analysis shall be sampled and sampled in accordance with ISO 4296-1 and ISO 4296-2, and the particle size shall be less than 100 μm.

And air dried under laboratory conditions.