

ICS 73.060.20

CCS D 32



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

GB/T 44031-2024

**Manganese ores - Methods of chemical analysis - General
instructions**

锰矿石 化学分析方法 通则

(English Translation)

Issued on: May 28, 2024

Implemented on: December 1, 2024

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 General

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document is modified to adopt ISO 4297:1978 "General rules for chemical analysis of manganese ores and concentrates". Compared with ISO 4297:1978, this document has many structural adjustments. See Appendix A. This document has more technical differences than ISO 4297:1978.

A list of these technical differences and their causes is given in Appendix B.

1 Scope

This document specifies general methods for the chemical analysis of manganese ores.

This document applies to the formulation, revision and use of standards for chemical analysis methods for manganese ores.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 1.1 Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents

GB/T 601 Preparation of standard titration solutions for chemical reagents

GB 3100 International System of Units and Its Application

GB/T 3101 General principles for quantities, units and symbols

GB/T 6379.1 Accuracy (trueness and precision) of measurement methods and results Part 1: General principles and definitions

GB/T 6379.2 Accuracy (trueness and precision) of measurement methods and results Part 2: Determination of repeatability of standard measurement methods Basic methods of sex and reproducibility

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB/T 8170 Rules for rounding off values and expression and determination of limit values

GB/T 12805 Laboratory glass instrument burette

GB/T 12806 Laboratory glassware single-line volumetric flasks

GB/T 12807 Laboratory glassware graduated pipettes

GB/T 12808 Laboratory glassware single-line pipettes

GB/T 14949.8 Determination of wet water content of manganese ore - Gravimetric method

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4.1 General

4.1.1

When formulating and revising the standards for chemical analysis methods for manganese ores, the relevant requirements for the preparation of GB/T 1.1 and national standards shall be met.

4.1.2

The current chemical analysis method for manganese ore can be used to verify other analysis methods and standard sample determination analysis, and can also be used as a reference for manganese ore analysis. Routine analytical methods for ores.

4.1.3

When there is more than one method for the same element, the method to be used can be selected according to the composition and content of the sample.

Select a wet analysis method with little interference to the elements to be measured and high precision.

4.1.4

The quantities, units and symbols involved in the chemical analysis methods for manganese ores shall be in accordance with the provisions of GB 3100 and GB/T 3101.