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ICS 73.060.10
CCS D31

YB

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YB/T 6416-2025

Method for determination of kilogram scale iron reduction softening-melting dropping performance under load and quenching experiment of primary slag

铁矿石公斤级高温荷重还原软熔滴落性能及初渣激冷试验方法

(English Translation)

Issued on: December 17, 2025 **Implemented on: July 1, 2026**

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 15 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/yb-t-6416-2025

Table of Contents

[Preview only]
1 Scope
2 Normative References
2.1 Terms
3 Terms and Definitions
4 Order information
5 Order contents
6 Technical requirements
7 Test methods
8 Inspection rules

1 Foreword

YB/T 6416-2025 was issued by Ministry of Industry and Information Technology on 17 December 2025 and has been in force since 1 July 2026.

The YB/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies the test instruments, equipment, conditions, sample preparation, test procedures, result calculation, and test report for the high-temperature load reduction softening dripping performance of iron ore at the kilogram level and the initial slag quenching test method. This standard applies to the evaluation of the high-temperature load reduction softening dripping performance of iron-bearing furnace burdens, including sinter, pellets, natural lump ore, and their composite burdens, and the initial slag (preparation) quenching test.

YB/T 6416-2025 falls under ICS 73.060.10, in the field of mining and minerals.

This catalogue holds 109 other YB/T standards in that field.

In this catalogue, YB/T standards carry edition years from 1980 to 2026.

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3 About this standard

Sector: Ferrous Metallurgy Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

GB/T 6730.1-2016 - Iron ores -- Preparation of pre-dried test samples for chemical analysis

GB/T 6730.10-2014 - Iron ores -- Determination of silicon content -- Gravimetric methods

GB/T 6730.11-2007 - Iron ores -- Determination of aluminium content -- EDTA titrimetric method

YB/T 6460-2026 - Iron ores - Determination of silicon, calcium, aluminum, magnesium, titanium, manganese, vanadium, phosphorus, potassium, sodium, zinc, copper, arsenic, lead and sulfur content - Wavelength dispersive X-ray fluorescence spectrometry (pressed disc method)

YB/T 6387-2025 - Evaluation Requirements for Green Plants in Iron Ore Mining and Beneficiation

YB/T 6415-2025 - Classification of maceral for blast furnace off-gas dust

5 Classification and status

International classification (ICS): 73.060.10

Chinese Standard Classification (CCS): D 31

Prefix YB/T: recommended standard.

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