

ICS 73.060.10
CCS D 31



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

GB/T 6730.1-2016

**Iron ores -- Preparation of pre-dried test samples for chemical
analysis**

铁矿石 分析用预干燥试样的制备

(English Translation)

Issued on: February 24, 2016

Implemented on: November 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China**

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1 Scope

This Part of GB/T 6730 specifies the preparation of predried test samples for the chemical analysis of iron ores.

This Part is applicable to natural iron ores, iron concentrates and agglomerates, and includes the preparation of predried test samples in sintered products for chemical analysis.

This Part does not apply to direct reduced iron test samples containing metallic iron, natural or processed iron ore test samples containing more than 0.2% (mass fraction) of sulfur or more than 2.5% (mass fraction) of chemically combined water. The above-mentioned test samples shall adopt GB/T 6730.3.

NOTE 1: loss on ignition can be used to estimate the content of chemically combined water.

NOTE 2: for all samples, GB/T 6730.3 can be adopted to determine the moisture absorption capacity.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 10322.1 Iron Ores - Sampling and Sample Preparation Procedures (GB/T 10322.1-2014, ISO 3082:2009, IDT)

3 Principle

At 105 °C, dry the test samples to a constant weight.

4 Instruments and Materials

4.1

Balance

With a division value of 0.0001 g.

4.2

Drying oven

The temperature can be controlled at 105 °C ± 2 °C.