

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

SN/T 1797.4-2008

**Technical regulation on safety and sanitation for inspection of
iron ore. Part 4: Aluminium content for quality evaluation**

铁矿石安全卫生检验技术规范 第4部分：质量评价 铝含量

(English Translation)

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Foreword

SN/T 1797 "Safety of Health Laboratory technical specifications of iron ore" is divided into 12 parts.

- Part 1. manual sampling method;
- Part 2. Evaluation of total quality iron content;
- Part 3. Quality Assessment silicon content;
- Part 4. Quality Assessment of aluminum content;
- Part 5. Quality Assessment of loss on ignition;
- Part 6. Quality Evaluation of moisture content;
- Part 7. Quality evaluation of particle size distribution;
- Part 8. Evaluation of thermal cracking quality index;
- Part 9. Quality evaluation of mechanical strength;
- Part 10. Quality Assessment of the relative degree of reduction;
- Part 11. Evaluation of the quality of pellets free expansion coefficient;
- Part 12. Quality Assessment bulk density.

This section SN/T Section 41797 of.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

This section is drafted. Shenzhen Entry-Exit Inspection and Quarantine of Guangdong.

1 Scope

This section provides grading standards of quality evaluation and export of iron ore and aluminum content determination.

This section applies to natural iron ore and iron ore processing.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to this part of the research agreement Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

Determination of aluminum content GB/T 6730.11 Methods for chemical analysis of iron fluoride replacement complexometric method Spectrophotometric determination of aluminum content GB/T 6730.12 iron ore of chromium azure S GB/T 6730.56 iron ore of aluminum content - Flame Atomic Absorption Spectrometry GB/T 10322.1 iron ore sampling and sample preparation methods GB/T 20565 Iron ore and direct reduced iron term SN/T 0832 import and export of iron ore, the measurement wavelength of silicon, calcium, manganese, aluminum, titanium, magnesium and phosphorus dispersive X-ray fluorescence spectrometry SN/T 1797.1 iron ore Health and Safety Inspection Technology Specification - Part 1. Sampling manual method ISO 3082 iron ore sampling and sample preparation methods ISO 4688-1 Determination of iron ore of aluminum content - Part 1. Flame atomic absorption spectrometry ISO 6830 iron ore of aluminum content - EDTA titration ISO 11535 iron ore each element inductively coupled plasma atomic emission spectrometry method Standard Test Method for iron ore in aluminum content by atomic absorption spectrophotometry method ASTM E507 Standard Test Method for iron ore and related materials aluminum content ASTM E738 complexometric titration Analysis of iron BS7020-8.2 Part 8. Methods of measurement of aluminum content by flame atomic absorption spectrometry JISM8220 method for the determination of aluminum ore

3 Terms and Definitions

Terms and definitions GB/T 20565 established the application of this section.

4 Sampling and sample preparation

Used for experimental samples for analysis, sampling should be carried out according to GB/T 10322.1, ISO 3082, or SN/T 1797.1 requirements, and in accordance with GB/T 10322.1 or ISO 3082 method of preparing a sample size of less than 100μm in. If the ore containing compound or water-containing substances easily oxidized Volume, the size

should be less than 160μm.

5 Measurement method

Determination of iron ore of aluminum content can be one of the following methods.

GB/T 6730.11, GB/T 6730.12, GB/T 6730.56, SN/T 0832, ISO 4688-1, ISO 6830, ISO 11535,