

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

SN/T 1797.3-2008

**Technical regulation on safety and sanitation for inspection of
iron ore. Part 3: Silicon content for quality evaluation**

铁矿石安全卫生检验技术规范 第3部分：质量评价 硅含量

(English Translation)

Issued on: July 17, 2008

Implemented on: February 1, 2009

Issued by: General Administration of Customs

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 Sampling and sample preparation
5 Measurement method
6 Silicon content in iron ore grading

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 31797 of.

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

This section is drafted. Tianjin Entry-Exit Inspection and Quarantine Bureau, Shenzhen CIQ.

1 Scope

This section provides grading and export of iron ore in the quality assessment and determination of silicon content.

This section applies to the import and export of natural iron ore, 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 silicon content GB 6730.9 chemical analysis of iron silicon molybdenum blue photometric method Determination of silicon content GB 6730.10 gravimetric method for chemical analysis of iron 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 2598 Determination of silicon content in iron ore ISO 3082 iron ore sampling and sample preparation methods ISO 9516 iron ore, silicon, calcium, manganese, aluminum, titanium, magnesium, phosphorus, sulfur and potassium measurement wavelength dispersive X- ray fluorescence spectrometry

3 Terms and Definitions

Terms and definitions GB/T 20565 established applicable to 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 samples silica content of silicon content (SiO₂) is less than 1.5% (mass fraction) according to ISO 2598-1, GB 6730.9, ISO 9516, SN/T 0832 method. The silicon content (SiO₂) greater than 1.5% (by mass) of the sample by ISO 2598-2, GB

6730.10, ISO 9516, SN/T 0832 method.

6 Silicon content in iron ore grading

Silicon content in iron ore grading according to Table 1.