

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

SN/T 3323.5-2012

**Mill scale. Part 5: Determination of iron and silicon, calcium,
phosphorus, manganese, aluminium, titanium and magnesium.**

X-ray fluorescence spectrometric method

(English Translation)

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Foreword

SN/T 3323 "iron skin" is divided into five parts.

--- Part 1. Determination of ferrous oxide dichromate method;

--- Part 2. Determination of sulfur content - High frequency combustion infrared absorption method;

--- Part 3. lead, chromium, cadmium was measured by inductively coupled plasma atomic emission spectrometry;

--- Part 4. arsenic, mercury atomic fluorescence spectrometry;

--- Part 5. total iron and silicon, calcium, phosphorus, manganese, aluminum, titanium and magnesium determination of X-ray fluorescence spectrometry.

This section SN/T 3323 Part 5.

This section is in accordance with GB/T 1.1-2009 given rule drafting.

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

1 Scope

SN/T 3323 provisions of this part of the measurement wavelength dispersive X- ray fluorescence spectrometry of total iron oxide and silicon iron, calcium, phosphorus, manganese, Aluminum, titanium, magnesium content determination.

This section applies to iron oxide, each element measuring range in Table 1.

Table 1 method Scope

Constituent

Measuring range

Fe 54 ~ 72

SiO₂ 0.36 ~ 10

CaO 0.022 ~ 2.09

P 0.0037 ~ 0.62

MnO 0.015 ~ 0.019

Al₂O₃ 0.080 ~ 5.5

TiO₂ 0.012 ~ 0.13

MgO 0.044 ~ 3.74

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 6379.2 measurement methods and results of Accuracy (trueness and precision) - Part 2. Determine the standard measurement method to repeat of the basic methods of reproduction Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 16597 metallurgical product analysis X- ray fluorescence spectrometry General Principle 3 Samples with a suitable flux melted lithium nitrate as the oxidizing agent, lithium bromide as a release agent, and cobalt was added as a measurement of total iron content of the internal standard, melt Cast for X-ray fluorescence spectrometer to measure the shape of the glass sheet. Measuring X-ray fluorescence spectrometry glass sheet analyte characteristic spectral lines Strength, according to the quantitative relationship between X-ray fluorescence intensity and analyte content measured elements between the selection of the regression equation and the number of schools