

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

SN/T 3322.1-2012

**Chemical analysis of limenite concentrate for import and
export. Part 1: Determination of major and minor components.
Wavelength dispersive X-ray fluorescence spectrometry
(English Translation)**

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Foreword

This section SN/T 3322 "Importers and chemical analysis of titanium concentrate," Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

The section under the jurisdiction of the State Certification and Accreditation Administration Committee.

1 Scope

SN/T 3322 This section specifies the method for determination of major and minor components in Titanium Concentrate by wavelength dispersive X-ray fluorescence spectrometer.

This section applies to the determination of titanium concentrates in major and minor components, measurement range (by mass) shown in Table 1.

Table 1 titanium concentrate measurement range of each component

ingredient

Measurement range (mass fraction) Al₂O₃ 0.1 ~ 3.0 CaO 0.1 ~ 2.0 Fe 17.0 ~ 42.0 MgO 0.05 ~ 6.00 MnO 0.01 ~ 3.00 P 0.01 ~ 0.20 S 0.01 ~ 0.20 SiO₂ 0.10 ~ 5.00 TiO₂ 35.0 ~ 60.0 V₂O₅ 0.02 ~ 0.50

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

3 Method summary

Sample was cast into a certain proportion of flux suitable for melting the sample plate X-ray fluorescence spectrometer measurements. In the selected instrument measurement bar by measuring sample pieces melt film analyte characteristic spectral lines of X-ray fluorescence intensity, based on the calibration curve, and the inter-element interference effect it should be corrected to obtain the content of the analyte.