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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3319.1-2012

Ferrophosphorus for import and export. Part 1: Determination of phosphorus, manganese silicon, titanium, vanadium, chromium. Inductively coupled plasma atomic emission spectrometric method

进出口磷铁 第1部分：磷、锰、硅、钛、钒、铬的测定 电感耦合等离子体原子发射光谱法

(English Translation)

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Foreword

SN/T 3319 "Importers phosphorus iron" is divided into two parts.

--- Part 1. phosphorus, manganese, silicon, titanium, vanadium, chromium was measured by inductively coupled plasma atomic emission spectrometry;

--- Part 2. Determination of manganese content periodate hydrochloric acid method.

This section SN/T 3319 Part 1.

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

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

1 Scope

SN/T 3319 provisions of this part of the inductively coupled plasma atomic emission spectrometry (ICP-AES) Determination of phosphorus, iron, phosphorus, manganese, silicon, Titanium, vanadium, chromium method.

This section applies to phosphorus, manganese, silicon, titanium, vanadium, chromium, iron determination of phosphorus, the measurement range of each element in Table 1.

Table 1 element Measuring range

element

Measuring range (mass fraction) element Measuring range (mass fraction) P 10 ~ 30 Ti 0.03 ~ 5 Mn 0.01 ~ 10 V 0.03 ~ 1 Si 0.1 ~ 10 Cr 0.03 ~ 1

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,

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the latest edition (including any amendments) applies to this document.

GB/T 4010 alloy chemical analysis and preparation of samples 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 12806 Laboratory glassware single marking flask GB/T 12808 Laboratory glassware single marking pipette

3 Method summary

Sample with sodium carbonate and sodium hydroxide melt, deionized water leaching slag, added to the leach solution of hydrochloric acid, nitric acid, concentrated sulfuric acid, the sample End Totally dissolved, after adding a certain volume of boric acid by inductively coupled plasma atomic emission spectrometry (ICP-AES) Determination of the analyte in the sample solution concentration. Boron as an internal standard for the determination of phosphorus.

4 Reagents and materials

Unless otherwise stated, all reagents were of analytical grade or higher purity. Water is in line with two water GB/T 6682 regulations.

4.1
anhydrous sodium carbonate.

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