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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3319.3-2013

Ferrophosphorus for import and export. Part 3: Determination of phosphorus content in-Phosphovanoclomolybeate differential spectrophotometry

进出口磷铁 第3部分:磷含量的测定 钒钼黄差示光度法

(English Translation)

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Foreword

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

--- Part 1. Determination of the inductor phosphorus, manganese, silicon, titanium, vanadium, chromium coupled plasma atomic emission spectrometry;

--- Part 2. Determination of manganese content periodate hydrochloride spectrophotometry;

--- Part 3. Determination of vanadium alloy by differential spectrophotometry phosphorus content is shown.

This section SN/T 3319 Part 3.

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.

This section is drafted. Tianjin People's Republic of China Exit Inspection and Quarantine.

1 Scope

SN/T 3319 provisions of this part of the vanadium alloy by differential spectrophotometric determination of phosphorus, iron, phosphorus content approach.

This section applies to the determination of phosphorus, iron, phosphorus content, measurement range is. 15.00% - 30.00%.

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.

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Preparation of standard solution of GB/T 602 Determination of impurities in chemical reagents 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

3 Method summary

Sample with nitric acid, hydrofluoric acid decomposition, oxidation and fluorine perchlorate smoke. 4% to 6.5% nitric acid medium, phosphate and molybdate, vanadate Salt form soluble vanadium molybdenum yellow phosphorus complexes, measured by differential spectrophotometric absorbance at 420nm place.

4 Reagents

Unless otherwise indicated, the reagents used were of analytical grade reagent water to comply with two water GB/T 6682 regulations.

4.1
nitric acid (rho = 1.42g/mL).

4.2
hydrochloric acid (rho = 1.19g/mL).

4.3
Hydrofluoric acid (rho = 1.15g/mL).

4.4
perchloric acid (rho = 1.67g/mL).

4.5
nitric acid (11), boiled to remove nitrogen oxides.

4.6
nitric acid (13).

4.7
ammonium vanadate solution (2.5g/L). Weigh 2.5g aqueous solution containing ammonium metavanadate was dissolved in 1000mL 30mL nitric acid.

4.8
ammonium molybdate solution (50g/L).

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4.9

Phosphorus standard solution (0.100mg/mL). according to GB/T 602 formulated or direct purchase of certified reference materials.

4.10

iron solution (1g/L). Weigh 1.0g of high iron (iron content greater than 99.99%), (4.6) dissolved in 200mL and dilute nitric acid solution Diluted to 1000mL, and mix.

5 Instruments

5.1

Vis.

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