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INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 3343-2012

Determination of manganese, phosphorus, silicon, chromium, nickel, copper, molybdenum, and titanium in Stainless steel. Inductively coupled plasma atomic emission spectrometry

不锈钢中锰、磷、硅、铬、镍、铜、钼和钛含量的测定 电感耦合等离子体原子发射光谱法

(English Translation)

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Foreword

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

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

This standard was drafted. People's Republic of China Jiangsu Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the inductively coupled plasma atomic stainless steel manganese, phosphorus, silicon, chromium, nickel, copper, molybdenum and titanium emission spectrometer method.

This standard applies to the determination of carbon content of not more than 0.20% of the stainless steel manganese, phosphorus, silicon, chromium, nickel, copper, molybdenum and titanium content. Measurement

Table 1 given range.

The silicon standard assay for soluble silicon.

Table 1 Determination of elements content range

element

Content range (mass fraction) element Content range (mass fraction) Mn 0.01 ~ 10 P 0.003 ~ 0.25 Si 0.01 ~ 2 Cr 0.02 ~ 30 Ni 0.01 ~ 30 Cu 0.01 ~ 5 Mo 0.01 ~ 5 Ti 0.01 ~ 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.

Preparation of standard solution of GB/T 602 Determination of impurities in chemical reagents GB/T 6682 analytical laboratory use specifications and test methods GB/T 20066 Steel and iron - Sampling and determination of the chemical composition of the sample with a sample preparation method

3 Method summary

Samples with hydrochloric acid - nitric acid mixture dissolved, yttrium internal standard element After cooling, diluted to determine the volume of the sample solution is introduced into the plasma Atomic emission spectrometer to measure the wavelength corresponding elements in its emission intensity, measured by elemental analysis to calculate emission intensity line and the internal standard line emission intensity the ratio of the degree, according to the standard curve to determine the amount of analyte.

4 Reagents and materials

Unless otherwise indicated in the analysis using only recognized as analytical reagents and GB/T 6682 provisions of secondary water.

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