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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3345-2012

Determination of the elements of chromium, nickel, vanadium, molybdenum, copper, manganese, titanium, aluminium, magnesium, zinc and calcium in stainless steel waste and scrap. Inductively coupled plasma atomic emission specrometry

废不锈钢中铬、镍、钒、钼、铜、锰、钛、铝、镁、锌、钙含量的测定 电感耦合等离子体原子发射光谱法

(English Translation)

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Preview: page 1 of 3 shown, 7 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword

1 Scope

2 Normative references

3 Method summary

4 Reagents and materials

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 Zhuhai Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the Determination of chromium in stainless steel scrap, nickel, vanadium, molybdenum, copper, manganese, titanium, aluminum, magnesium and inductively coupled plasma atomic emission, Zinc, calcium content of the test method.

This standard applies to the determination of scrap stainless steel plate chromium, nickel, vanadium, molybdenum, copper, manganese, titanium, aluminum, magnesium, zinc, calcium content (band). See measurement range

Table 1.

This standard specifies the aluminum is dissolved aluminum.

Table 111 elements measuring range

element

Content range (mass fraction) Cr 5.00 ~ 25.00 Ni 0.50 ~ 25.00 V 0.05 ~ 1.00 Mo 0.05 ~ 4.00 Cu 0.05 ~ 5.00 Mn 0.50 ~ 15.00 element Content range (mass fraction) Ti 0.05 ~ 1.00 Al 0.05 ~ 1.00 Mg 0.05 ~ 1.00 Zn 0.05 ~ 1.00 Ca 0.05 ~ 1.00

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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 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 JJG015 inductively coupled plasma atomic emission spectrometer verification procedures SN/T 1733.7 identify non-genuine steel test procedures Part 7. Stainless steel plate (with)

3 Method summary

Hydrochloric acid is heated, dissolved and diluted to the volume determined to yttrium as internal standard, the sample solution is injected into the plasma flame, and - the sample with nitric acid in this light source, at a wavelength corresponding elements in plasma spectrometer to measure the intensity of light to determine the content of its internal standard method from the standard curve.

4 Reagents and materials

Unless otherwise indicated in the analysis using only high-quality pure reagents and in line with two water GB/T 6682 regulations.

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