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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3595-2013

Zinc waste. Determination of ferrum, aluminum, calcium, magnesium, manganese, copper, titanium, chromium, nickel, vanadium and cadmium. Inductively coupled plasma atomic emission spectrometry

含锌废料 铁、铝、钙、镁、锰、铜、钛、铬、镍、钒和镉的测定 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.

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

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

This standard was drafted. People's Republic of China Hebei Exit Inspection and Quarantine.

1 Scope

This standard specifies the inductively coupled plasma atomic emission spectrometry zinc scrap iron, aluminum, calcium, magnesium, manganese, copper, titanium, chromium, nickel, vanadium, and Cadmium method.

This standard applies to iron, aluminum, calcium, magnesium, manganese, copper, titanium, chromium, nickel, vanadium and cadmium determination of zinc waste. Measuring range of the elements shown in Table 1.

Table 1 element Measuring range

Elements Fe Al Ca Mg Mn Cu Ti Cr Ni V Cd Quality Score 0.001 0.2 0.002 to 10.0 0.019 1.0 0.0089 0.5 0.0072 ~ 2.0 0.0015 to 5.0 0.0006 ~ 2.0 0.0010 ~ 2.0 0.0018 ~ 2.0 0.0012 8.0 0.0012 0.5

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 Laboratory use specifications and test methods GB/T 6682 Analysis SN/T 1791.9-2006 imported wastes as raw materials inspection and quarantine procedures - Part 9. non-ferrous metal scrap

3 Method summary

The sample was measured for melting clean up, melted ingots after sampling, were reduced into ingots and ash representative samples, two kinds of sample points Do After digestion, after constant volume digestion solution by the carrier gas into the plasma, the wavelength corresponding to each analyte intensity, determined from the standard curve content.

4 Reagent material

Unless otherwise indicated, the reagents used were of analytical grade, water as a secondary water GB/T 6682 regulations.

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

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

4.3
sulfate (rho = 1.18g/mL).

4.4
hydrofluoric acid. 40%.

4.5
Hydrogen peroxide. 30%.

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