Chinastandards.org

ICS 75.160.10
CCS H32

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3799-2014

Determination of potassium and sodium in coke ash - Atomic absorption spectrometry

焦炭灰中钾、钠的测定 原子吸收分光光度法

(English Translation)

Issued on: January 13, 2014 **Implemented on: August 1, 2014**

Issued by: General Administration of Customs

Preview: page 1 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3799-2014

Chinastandards.org

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 Hebei Exit Inspection and Quarantine.

1 Scope

This standard specifies the use of atomic absorption spectrophotometer coke ash, potassium, sodium content method.

This standard applies to coke ash Determination of potassium and sodium content. Potassium measurement range of 0.2% to 2.0% (mass fraction); Determination of sodium Fan Around 0.1% to 1.0% (mass fraction).

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.

Preparation of standard solution of GB/T 602 Determination of impurities in chemical reagents 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 6682-2008 Analysis GB/T 8170 repair value expressed about the rules and limit values and judgment

Preview: page 2 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3799-2014

3 Method summary

Sample in a closed microwave digestion apparatus with nitric acid and hydrofluoric acid digestion, using air - acetylene flame atomic absorption spectrophotometer points Do the determination of potassium, sodium absorbance, calculating potassium, sodium content.

4 Reagents and materials

Unless otherwise stated, the use of superior grade pure reagents and ultrapure water in the analysis or in compliance with GB/T 6682-2008 water level requirements.

4.1
Hydrofluoric acid (rho = 1.15g/mL).

4.2
nitric acid (rho = 1.42g/mL).

4.3
perchloric acid (rho = 1.75g / mL).

4.4
Potassium standard stock solution (1000μg/mL). There used directly within the validity period of the certified reference material or press GB/T 602 formulated.

4.5
potassium standard solution (40μg/mL). Pipette 20.00mL potassium standard stock solution (4.4), placed in 500mL flask, diluted with water to the mark, shake, into plastic bottles.

4.6
Sodium standard stock solution (1000μg/mL). There used directly within the validity period of the certified reference material or press GB/T 602 formulated.

4.7
sodium standard solution (40μg/mL). Pipette 20.00mL sodium stock standard solution (4.6), placed in 500mL flask, diluted with water to the mark, shake, into plastic bottles.

4.8
K standard series solution. Pipette respectively 0mL, 2mL, 4mL, 6mL, 8mL, 10mL potassium standard solution (4.5) into 100mL Flask, add nitric acid (4.2) 1mL, diluted with water to the mark, shake, transferred to a plastic bottle.

Preview: page 3 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3799-2014