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SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3359-2012

Determination of diarsenic pentaoxide, diarsenic trioxide, lead hydrogen arsenate and triethyl arsenate in polymer and glass

聚合物、玻璃材料中五氧化二砷、三氧化二砷、砷酸氢铅、三乙基砷酸酯的测定方法

(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 is mainly drafted by. People's Republic of China Ningbo Exit Inspection and Quarantine.

1 Scope

This standard specifies the polymers, glass and other materials arsenic pentoxide, arsenic measured dioxide, lead hydrogen arsenate, Triethyl arsenate ester method.

This standard applies to acid-soluble polymer, the glass material was measured arsenic and lead, and arsenic pentoxide, arsenic trioxide, triethyl arsenate Lead hydrogen arsenate ester and conversion of various substances detection limit is. arsenic pentoxide 20mg/kg, arsenic trioxide 20mg/kg, triethyl arsenate Ester 50mg/kg, lead hydrogen arsenate 50mg/kg.

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 Laboratory use specifications and test methods GB/T 6682 Analysis JJG768 emission spectrometer calibration Way Home

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3 Method summary

The sample was processed by microwave digestion, determination of arsenic, lead elements by inductively coupled plasma atomic emission spectrometry, and converted to arsenic pentoxide, Arsenic trioxide, arsenic acid ester and triethyl arsenate Lead hydrogen content.

4 Reagents and materials

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
Hydrofluoric acid (rho = 1.19g/mL).

4.3
Hydrogen peroxide (rho = 1.10g/mL).

4.4
nitric acid - hydrofluoric acid mixed solution. Measure 100mL nitric acid (4.1), and slowly poured into 870mL water, then add 30mL hydrofluoric acid (4.2) and mix together.

4.5
arsenic, lead standard stock solution (1000μg/mL). according to GB/T 602 or the method of preparation of direct purchase of certified reference materials.

4.6
filter. 0.45μm pore size membrane filters.

4.7
Quantitative filter paper. phi12.5cm, medium speed.

5 Apparatus

5.1
Inductively coupled plasma atomic emission spectroscopy (ICP-OES). with hydrofluoric acid resistant atomizer meet JJG768 requirements.

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