Chinastandards.org

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3339-2012

Determination of heavy metal content on import and export textile. Inductively coupled plasma atomic emission spetrometric method (ICP-AES)

进出口纺织品中重金属总量的测定 电感耦合等离子体发射光谱法

(English Translation)

Issued on: December 12, 2012 **Implemented on: July 1, 2013**

Issued by: General Administration of Customs

Preview: page 1 of 3 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3339-2012

Chinastandards.org

Table of Contents

Foreword

1 Scope

2 Normative references

4 Reagents

5 Equipment

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 Guangdong CIQ.

1 Scope

This standard specifies the textiles Heavy Metal Lead (Pb), cadmium (Cd), Nickel (Ni), chromium (Cr), cobalt (Co), copper (Cu), antimony (sb), Inductively coupled plasma total arsenic (As), mercury (Hg) Determination of 9 Elements of emission spectrometry.

This standard applies to all kinds of textile materials.

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 Principle 3 the sample was added concentrated nitric acid, concentrated hydrochloric acid and hydrogen peroxide, microwave digestion, the digestion fluid volume, inductively coupled plasma emission spectrometry (ICP-OES) assay solution of lead (Pb), cadmium (Cd), Nickel (Ni), chromium (Cr), cobalt (Co), copper (Cu), antimony (Sb), arsenic (As), mercury (hg)

9 Elements of concentration, calculate the total amount of heavy metals in the sample.

Preview: page 2 of 3 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3339-2012

4 Reagents

Unless otherwise specified, use only the gifted class pure reagents. The purity of the water at least up to three GB/T 6682 provisions of distilled or deionized Water requirements.

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

4.2
Hydrogen peroxide (rho = 1.11g/mL).

4.3
hydrochloric acid (rho = 1.19g/mL).

4.4
lead, cadmium, nickel, chromium, cobalt, copper, antimony, arsenic, mercury standard stock solution (100μg/mL). according to GB/T 602 formulated or direct purchase of certified standard Reference material.

4.5
nitric acid - a mixed solution of hydrochloric acid. amount of 120mL nitric acid (4.1), and slowly poured into 840mL water and then weighed 40mL hydrochloric acid solution (4.3) and mix together.

4.6
lead, cadmium, nickel, chromium, cobalt, copper, antimony, arsenic, mercury standard solution. Pipette 0mL, 1.0mL, 2.0mL, 5.0mL, 10.0mL Lead, cadmium, nickel, chromium, cobalt, copper, antimony, arsenic, mercury standard stock solution (4.4) in a 100mL plastic flask and then with nitric acid - hydrochloric acid mixed Solution (4.5) diluted to the mark, and mix. This standard solution series concentrations were. 0μg/mL, 1.0μg/mL, 2.0μg/mL, 5.0μg /mL, 10.0μg/mL. Standard working solution from light below 4 °C, valid for one month.

5 Equipment

5.1
high-pressure microwave digestion closed with Teflon or other suitable pressure tank (maximum working pressure of not less than 7MPa).

Preview: page 3 of 3 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3339-2012