Chinastandards.org

ICS 59.080.30
CCS W55

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3338-2012

Determination of polycyclic aromatic hydrocarbons residues in textiles for import and export

进出口纺织品中多环芳烃残留量检测方法

(English Translation)

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

Issued by: General Administration of Customs

Preview: page 1 of 4 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3338-2012

Chinastandards.org

Table of Contents

Foreword

1 Scope

2 Method summary

3 Reagents and materials

4 Instruments and equipment

5 Measuring step

5.1 Extraction

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. Distribution of this document Institutions do not assume the responsibility to identify 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 Zhejiang Exit Inspection and Quarantine, Jiaxing College.

Drafters of this standard. Shen Bing, Xiqi Hui, Li Lei, come Yan Fang, Zhu Hongmin, Ding Yun, Jiang Jianjun, Zhang.

Import and export of textiles polycyclic aromatic hydrocarbons Residues Detection method

1 Scope

This standard specifies the textile 18 PAHs by gas chromatography - mass spectrometry.

This standard applies to any kind of textiles.

2 Method summary

Hexane as the extraction solvent, a sample of the target compound was extracted with ultrasonic wave concentrated constant volume by gas chromatography - mass spectrometry (GC/MSD) were measured, quantified by external standard.

Preview: page 2 of 4 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3338-2012

3 Reagents and materials

3.1
hexane. AR.

3.2
PAHs standards. purity not less than 97.5%, see Table A.1.

3.3
standard stock solution. accurately weighed amount of PAHs standard (3.2) with n-hexane dissolved constant volume, were prepared at a concentration of about 1000mg/L of standard stock solution.

NOTE: The standard stock solution should be in the 0 °C ~ 4 °C refrigerator, valid for six months.

3.4
mixed standard working solution. If necessary, diluted to the appropriate concentration of mixed standard working with n-hexane (3.1) standard stock solution (3.3) as a solution.

NOTE: The standard working solution should be in the 0 °C ~ 4 °C refrigerator, valid for three months.

4 Instruments and equipment

4.1
Gas chromatography/mass spectrometry (GC-MS).

4.2
stoppered test tube. about 50mL.

4.3
Analysis of balance. a sense of the amount of 0.1mg and 0.01g each one.

4.4
ultrasonic bath. the frequency of 50kHz.

4.5
rotary vacuum concentrator.

5.1 Extraction

The sample was cut to 5mm x 5mm or less, after mixing weighed 2g (accurate to 0.01g) sample in a stoppered test tube (4.2), and 20mL hexane (3.1), using an ultrasonic bath (4.4) ultrasonic extraction 30min, the upper extract decanted, and the residue after extraction was repeated once, together and extract. The extract was concentrated using a

Preview: page 3 of 4 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3338-2012

Chinastandards.org

vacuum rotary instrument (4.5) at 50 °C ± 2 °C, 380mbar ± 20mbar concentrated to about 5mL, quantitative transfer Move 10mL volumetric flask, constant volume with n-hexane for GC-MS (4.1) measured.

Preview: page 4 of 4 shown, 7 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3338-2012