Chinastandards.org

ICS 83.140
CCS G40

SN

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3816-2014

Screening of cobalt, arsenic, chromium, tin, bromine and lead in rubber products - Energy dispersive X-ray fluorescence spectrometric method

橡胶制品中钴、砷、铬、锡、溴和铅的定量筛选方法 能量色散X射线荧光光谱法

(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-3816-2014

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 Zhejiang Exit Inspection and Quarantine, People's Republic of China Jiangsu Entry-Exit Inspection and Quarantine Bureau, Zhejiang Inspection and Quarantine Institute of Science and Technology.

1 Scope

This standard specifies the cobalt, arsenic, chromium, tin, bromine and determination of lead rubber products screened with an energy dispersive X-ray fluorescence spectrometry.

This standard applies to all types of rubber products, cobalt, arsenic, chromium, tin, lead and bromine screening concentration range of each analyte as shown in Table 1.

Table 1 rubber products, cobalt, arsenic, chromium, tin, lead and bromine screening assays range milligrams per kilogram

Eligible screening element compound content limit of determination Co P<= (318-3sigma) cobalt dichloride <=700 as P<= (456-3sigma) <=700 arsenic pentoxide Cr P<= (244-3sigma) hydrated sodium dichromate <=700 Sn P<= (279-3sigma) dibutyl tin oxide <=700 Br P<= (523-3sigma) six HBCD <=700 Pb P<= (418-3sigma) lead acetate trihydrate <=700 Note. P = pass limit, sigma represents precision.

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.

Preview: page 2 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3816-2014

Chinastandards.org

GB/T 8170 repair value expressed about the rules and limit values and judgment

3 Method summary

The prepared sample piece is placed energy dispersive X-ray fluorescence spectrometer ray beam at the selected instrument conditions, measure X-ray fluorescence intensity of the film sample analyte characteristic lines, according to the quantitative relationship between X-ray fluorescence intensity measured between the elements, and Elemental interference between correction, calculate the amount of analyte.

4 Reagents and materials

Unless otherwise indicated, the reagents used in the analysis were of analytical grade or above specifications.

4.1
hydrated cobalt chloride.

4.2
pairs of amino benzene ARSACETYL.

4.3
potassium dichromate.

4.4
stannous chloride.

Preview: page 3 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/sn-t-3816-2014