

SN

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 3377-2012

**Determination of lead in paints. Semiquantitative screening by
energy dispersive X-ray fluorescence spectrometric method
(English Translation)**

Issued on: December 12, 2012

Implemented on: July 1, 2013

Issued by: General Administration of Customs

Table of Contents

Foreword
1 Scope
2 Normative references
4 Reagents
5 Instruments and equipment
6 Preparation, samples

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. Release mechanism of the present document does not assume responsibility for the identification of 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 Jiangsu Entry-Exit Inspection and Quarantine Bureau, Changzhou import and export of industrial and consumer safety testing center.

1 Scope

This standard specifies the X-ray fluorescence spectrometry method for semi-quantitative screening assays energy dispersive paint lead content.

This standard applies to the lead content of the paint was measured by energy dispersive X-ray fluorescence spectrometry method of semi-quantitative screening.

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.

Laboratory use specifications and test methods GB/T 6682 Analysis Determination of GB/T 22788-2008 toy surface coatings of the total lead content Principle 3 in liquid coatings formulated matrix of different concentrations of lead standard solution, standard curve was

established in X-ray spectroscopy, the standard curve Determination of the test sample liquid paint lead content.

4 Reagents

Unless otherwise specified, water GB/T 6682 third grade water as specified, reagents were of analytical grade.

4.1

lead nitrate, pure class distinctions.

4.2

ethanol.

4.3

coated plate according to GB/T 22788-2008 test for lead-free liquid coatings.

5 Instruments and equipment

5.1

energy dispersive X-ray fluorescence spectrometer.

5.2

Analysis of balance. a sense of the amount of 0.1mg.

5.3

magnetic stirrer.

6 Preparation, samples

6.1

lead standard solution (5000mg/L). Weigh accurately a certain amount of lead nitrate (4.1), accurate to 0.1mg, with 5mL ~ 10mL water After completely dissolved with anhydrous ethanol (4.2) volume, formulated as 5000mg/L lead standard stock solution and set aside.

NOTE: ethanol's role is to lead in the standard working solution preparation process better standard stock solution mixed with the paint matrix evenly.

6.2

lead standard working solution. Weigh weighing method using a certain amount of liquid coating (4.3) as the matrix, formulated with lead standard solution (6.1) into