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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3019.2-2013

Determination of halogen content in electrical and electronic equipment. Part 2: Combustion in oxygen capsule and ion chromatography

电子电气产品中卤素的测定 第2部分:氧仓燃烧离子色谱法

(English Translation)

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Preview: page 1 of 3 shown, 8 in the full document. Complete English PDF, instant download:
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Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 Method summary
5 Reagents and materials

Foreword

SN/T 3019 "Electrical and Electronic Products Halogen determination" is divided into two parts.

--- Part 1. Oxygen Bomb Combustion - Ion Chromatography;

--- Part 2. oxygen chamber combustion ion chromatography.

This section SN/T 3019 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 3019 provisions of this part of the combustible materials in electrical and electronic products halogen oxygen chamber combustion ion chromatography method.

This section applies to the determination of halogen in electrical and electronic products.

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 GB/Z20288 hazardous substances in electrical and electronic products in the test sample resolution General requirements

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3 Terms and Definitions

The following terms and definitions apply to this document.

Halogen

Fluoro (F), chlorine (Cl), bromine (Br) and iodine (I) four elements.

4 Method summary

The analytical sample was crushed to a predetermined particle size, high temperature oxygen into the compartment cracking, oxidation, its product with the carrier gas into the absorbent liquid by ion chromatography (IC) separation and determination, external standard.

5 Reagents and materials

Unless otherwise specified, use only the gifted class pure reagents.

5.1
water, in line with GB/T 6682 Class 1 water.

5.2
Fluoride standard stock solution. Weigh at 100 °C ~ 105 °C drying to constant weight of sodium fluoride (NaF) 2.210g, dissolved in water, dilute to 1000mL, stored in polyethylene bottles, placed in the refrigerator for a period of two months. This solution was fluorinated ion 1000mg/L.

5.3
Chloride standard stock solution. Weigh at 500 °C ~ 600 °C ignition to constant weight of sodium chloride (NaCl) 1.648g, dissolved in water, dilute to 1000mL, placed in the refrigerator for a period of two months. The solution containing chlorine ions 1000mg/L.

5.4
bromine ion standard stock solution. Weigh at 100 °C ~ 105 °C drying to constant weight of potassium bromide (KBr) 1.489g, dissolved in water, dilute to 1000mL, placed in the refrigerator for a period of two months. The solution containing bromide ions 1000mg/L.

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