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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 1732.13-2013

Pyrotechnic composition used for fireworks and firecracker. Part 13: Determination of boric acid content

烟花爆竹用烟火药剂 第13部分：硼酸含量的测定

(English Translation)

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Foreword

SN/T 1732 "with fireworks pyrotechnic" is divided into 13 parts.

--- Part 1. Determination of barium content;

--- Part 2. Determination of dichromate;

--- Part 3. Determination of zinc content;

--- Part 4. Determination of copper content;

--- Part 5. Determination of titanium content;

--- Part 6. Determination of strontium content;

--- Part 7. Determination of lead content;

--- Part 8. Determination of sodium content;

--- Part 9. Determination of magnesium content;

--- Part 10. Determination of sulfur content;

--- Part 11. Determination of potassium content;

--- Part 12. Determination of red phosphorus content;

--- Part 13. Determination of boric acid content.

This section SN/T 1732 Part 13.

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.

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1 Scope

SN/T 1732 provisions of this part of the fireworks pyrotechnic method of determination of boric acid and safety regulations.

This section applies to fireworks with pyrotechnic Determination of boric acid.

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 GB/T 601 chemical reagent standard titration solution GB/T 603 chemical reagent in test methods - Preparations with Laboratory use specifications and test methods GB/T 6682 Analysis GB/T 8170 repair value expressed about the rules and limit values and judgment GB/T 15813-1995 Fireworks forming agent sample separation and crushing Principle 3 After appropriate sample pretreatment with mannitol strengthen boric acid, using phenolphthalein as indicator, titrated with sodium hydroxide standard titration solution, which can Calculate the amount of boric acid.

4 Scheme

2C6H12O6 H3BO3 = (C6H10O6) 2B- H 3H2O OH- H = H2O

5 Reagents

Unless otherwise indicated in the analysis using only confirm at least three water analytical grade reagents and GB/T 6682 stipulated. test the necessary reagents, in the absence of other provisions indicate, according to GB/T 601 and GB/T 603 provisions prepared.

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