

ICS 71.100.30
CCS G 89

SN

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

SN/T 1732.1-2014

Replacing SN/T 1732.1-2006

**Pyrotechnic composition used for fireworks and firecracker.
Part 1: Determination of Barium content**

烟花爆竹用烟火药剂 第1部分：钡含量的测定
(English Translation)

Issued on: April 9, 2014

Implemented on: November 1, 2014

Issued by: General Administration of Customs

Table of Contents

Foreword

1 Scope

2 Normative references

4 Reagents

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 1.

This section drafted in accordance with the rules of GB/T 1.1-2009 and GB/T 20001.4-2001 given.

The partial replacement of SN/T 1732.1-2006 "with fireworks Pyrotechnic Part 1. Determination of barium content", in addition to editorial modifications Outside the main technical changes are as follows.

--- In the foreword of the provisions, the increase in the standard preparation of the drafting of the rules are based;

- Modify the "Normative references" in the introductory phrase (see Chapter 2);
- Modify the scope of this section will be applicable from the scope "This section applies to fireworks with pyrotechnic barium content in the test Set "to" This section applies to fireworks with pyrotechnic barium content greater than 1% of the measured "(see Chapter 1);
- Combined principle and reaction section;
- Modify the sample size, the "Weigh about 5g sample" to "Weigh about 2g ~ 5g sample" (see 7.1).

This part by the National Certification and Accreditation Administration Committee and centralized.

This section is drafted. North Exit Inspection and Quarantine.

1 Scope

SN/T 1732 This section specifies the method for the determination of barium in pyrotechnic fireworks and firecrackers.

This section applies to fireworks with pyrotechnic barium content greater than 1% of the measurement.

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 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 Sample after pretreatment with a dilute nitric acid to dissolve sufficiently, filtered, the pH of the debug solution, adding a precipitating agent to the barium ion in the test solution, Aluminum, strontium and zinc ions separated from other components. Conditions with disodium edetate (EDTA) complexometric titration in the pH10.0 Under 1- (2-pyridyl azo) -2-naphthol (PAN) as the indicator solution, adding an appropriate amount of a test solution of potassium chromate solution was precipitated barium ions in the test solution, and the other A test solution without directly potassium chromate added EDTA, titration with copper sulfate standard solution titration test solution from yellow to blue is the endpoint, root According to the difference between the two test solution volume consumed copper sulfate standard titration solution calculate the amount of barium in a sample.

$\text{Cu}_2\text{H}_2\text{Y}_2^- = \text{CuY}_2^- \cdot 2\text{H}$ $\text{Ba}_2\text{CrO}_2\text{-}4 = \text{BaCrO}_4$ (down) $\text{Sr}_2\text{H}_2\text{Y}_2^- = \text{SrY}_2^- \cdot 2\text{H}$ $\text{Al}_3\text{F}_6^- = (\text{AlF}_6)^{3-}$

4 Reagents

Unless otherwise indicated in the analysis using only confirm at least three water analytical grade reagents and GB/T 6682 stipulated.

4.1

ethanol.