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CCS Y88



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

GB/T 22783-2008

**Determination of essential parameters of potassium nitrate for
use in fireworks and firecrackers**

烟花爆竹用硝酸钾关键指标的测定

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Table of Contents

- 1 Scope
- 2 Normative references
- 3.2 Determination of water-insoluble content
- 3.2.4 Analysis of step
- 10 Philippines spectrophotometry method (GB/T 3049- 2006, ISO 6685. 1982, IDT)

Foreword

Appendix A of this standard is an informative annex. The standard proposed by China National Light Industry Council. This standard by the National Standardization Technical Committee of fireworks. This standard was drafted. Guangxi CIQ fireworks testing center. The main drafters of this standard. Suppliers Jie, Wu Junyi, Chun Yan, Xiao rejuvenation. Fireworks with potassium nitrate measurement of key indicators

1 Scope

GB/T 22783-2008 is the Chinese national standard on determination of essential parameters of potassium nitrate for use in fireworks and firecrackers, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 September 2009. Classification: ICS 71.100.30, CCS Y88. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the fireworks with a water-insoluble content of potassium nitrate, pH, moisture absorption, moisture content, fineness, purity, containing chloride The amount of sodium content, iron content and determination of salt content. This standard applies to fireworks with water-insoluble content of potassium nitrate, pH, moisture absorption, moisture content, fineness, purity, containing chloride Amount, determination of sodium content, iron content and salt content.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard. Preparation of

GB/T 601 chemical reagent standard titration solution

GB/T 602 Determination of impurities in chemical reagents prepared standard solution (GB/T 602-2002,

ISO 6353-1. 1982, NEQ) with

GB/T 1918-1998 industrial potassium nitrate General Method

GB/T 3049 Industrial chemicals determination of iron content 1,

3.2 Determination of water-insoluble content

3.2.1 Principle After the sample was dissolved in water, filtered, and dried insolubles were weighed.

3.2.2 Reagents Unless otherwise indicated in the analysis using only confirm at least three water analytical grade reagents and GB/T 6682 stipulated. Diphenylamine - sulfuric acid indicator solution. 10g/L.

3.2.3 Instruments Conventional laboratory equipment and instruments and the following devices.

3.2.3.1 Drying oven. Controlled temperature $105\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.

3.2.3.2 Analytical balance. accuracy of 0.1mg. 3.2.3.3 4 emery core Crucible. volume of 30mL. After pumping water sufficiently washed, dried at $105\text{ }^{\circ}\text{C}$ 3h, after cooling spare.

3.2.3.4 filtration device.

3.2.4 Analysis of step

3.2.4.1 Weigh about 20g sample, accurate to 0.1mg, dissolved in 300mL water, heated until dissolved.

10 Philippines spectrophotometry method (GB/T 3049- 2006, ISO 6685. 1982, IDT)

GB/T 6003.1 woven wire mesh test sieve (GB/T 6003.1-1997, neq ISO 3310-1.1990)

GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD)

GB/T 8170 repair value expressed about the rules and limit values \u200b\u200band judgment

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