

ICS 71.100.30

CCS Y88



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

GB/T 22782-2008

**Determination of essential parameters of cuprum oxide powder
for use in fireworks and firecrackers**

烟花爆竹用氧化铜关键指标的测定

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Foreword

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. Wu Junyi, business Jie, Li Yiming and Xiao rejuvenation. Determination of fireworks with copper oxide key indicators

1 Scope

GB/T 22782-2008 is the Chinese national standard on determination of essential parameters of cuprum oxide powder 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 copper oxide in nitric acid insoluble content, moisture content, iron content, copper content, sulfate content, oxidation Determination of copper content and purity. This standard applies to fireworks with nitric acid insoluble copper oxide content, moisture content, iron content, copper content, sulfate content, oxidation Determination of copper content and purity.

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 General Method

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

3.2 Determination of insoluble matter content nitrate

3.2.1 Principle Sample dissolved in nitric acid was filtered, dried insolubles, call quality.

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. Nitric acid (1 + 1).

3.2.3 Instruments Usual laboratory equipment 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. Before and after the test crucible with hydrochloric acid immersion 24h, after washing to neutral, at $105\text{ }^{\circ}\text{C}$ Dried 3h, removed, placed in a desiccator, cooled to room temperature and set aside.

3.2.3.4 filtration device.

3.2.4 Analysis of step

3.2.4.1 Weigh about 5g sample, accurate to 0.1mg, placed in 500mL beaker.

3.2.4.2 added to the beaker 20mL water, nitric acid was slowly added dropwise, until when the violent reaction subsided slowly added 150mL nitric acid, heat and cook Boiling, to maintain micro-boiling 60min.

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

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 judgment Preparation of standard titration solution of

HG/T 3696.1 inorganic chemical products, chemical analysis