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

GB/T 22402-2008

**Photography -- Processing chemicals -- Specifications for
anhydrous sodium thiosulfate and sodium thiosulfate
pentahydrate**

摄影 加工用化学品 无水硫代硫酸钠和五水合硫代硫酸钠

(English Translation)

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Foreword

This standard is identical with ISO 10636:1994 "photographic processing chemicals --- anhydrous sodium thiosulfate and thiosulfate pentahydrate Sodium norms "(in English).

This standard is equivalent to translate ISO 10636:1994.

For ease of use, this standard made the following editorial changes.

--- "This International Standard" or "ISO 10636" to "this standard";

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Delete ISO 10636:1994 Foreword Introduction;

--- International standards set forth in Chapter 2, "Normative references" instead equivalents translate national standards.

Please note that some of the content of this standard may involve patents, the issuing authority of this standard should not bear the responsibility to identify these patents.

The standard proposed by China Petroleum and Chemical Industry Association.

The photosensitive material standard by the National Standardization Technical Committee (SAC/TC102) centralized.

This standard was drafted. China Lucky Film Group Corporation Baoding Lucky Chemical Co., photography.

Drafters of this standard. Jingbo places.

GB/T 22402-2008/ISO 10636:1994 Photography - Processing chemicals Anhydrous sodium thiosulfate and sodium thiosulfate pentahydrate

1 Scope

This standard specifies the test method for a photographic grade anhydrous sodium thiosulfate and sodium thiosulfate pentahydrate purity requirements and test 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.

GB/T 20432.1-2006 Photographic grade chemicals - Test methods - Part 1. General (ISO 10349-1:2002, IDT) Determination of ammonia insoluble matter. GB/T 20432.3-2008 Photographic grade chemicals - Test methods - Part 3 (ISO 10349-3:1992, IDT) Determination of heavy metals and iron content. GB/T 20432.5-2007 Photographic grade chemicals - Test methods - Part 5 (ISO 10349-5:1992, IDT) Determination of alkalinity or acidity. GB/T 20432.7-2007 Photographic grade chemicals - Test methods - Part 7 (ISO 10349-7:1992, IDT) GB/T 20432.10-2007 Photographic grade chemicals - Test methods - Part 10. Determination of sulfide (ISO 10349-10:1992, IDT)

3.1 Physical properties

Anhydrous sodium thiosulfate ($\text{Na}_2\text{S}_2\text{O}_3$) as a white powder, relative molecular mass of 158.09.

Sodium thiosulfate pentahydrate ($\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$) as a colorless crystal, relative molecular mass of 248.14.

3.2 Hazard

Sodium thiosulfate no risk in taking the usual protection operation, please refer to the information provided by the vendor.

3.3 HANDLING AND STORAGE

Store in a closed container, away from heat and moisture.

4 Requirements

Requirement in Table 1.

Table 1 Requirements

Project Test Limit Test Standard Terms Content /% $\geq$ $\text{Na}_2\text{S}_2\text{O}_3$ $\text{Na}_2\text{S}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ 97.0

99.0 to 101 7.1 7.1 this standard this standard GB/T 22402-2008/ISO 10636:1994