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

GB/T 22409-2008

**Photography -- Processing chemicals -- Specifications for
potassium sulfite solution, 650g/L**

摄影 加工用化学品 亚硫酸钾溶液(650g/L)

(English Translation)

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Foreword

This standard is identical with ISO 5990:2000 "photographic processing chemicals --- sulfite solution (650g/L) Specifications" (English Chinese Version).

This standard is equivalent translation ISO 5990:2000.

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

--- "This International Standard" or "ISO 5990" to "this standard";

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

--- Delete ISO 5990:2000 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 22409-2008/ISO 5990:2000 Photography - Processing chemicals

1 Scope

This standard specifies the test method for a photographic grade sulfite solution (650g/L) 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 heavy metals and iron content. GB/T 20432.5-2007 Photographic grade chemicals - Test methods - Part 5 (ISO 10349-5:1992, IDT) Part 9 GB/T 20432.9-2007 Photographic grade chemicals - Test method. Reaction of silver nitrate and ammonia solution (ISO 10349-9:1992, IDT) GB/T 20432.11-2007 Photographic grade chemicals - Test methods - Part 11. Determination of relative density (ISO 10349-11:1992, IDT) Determination of density. GB/T 20432.12-2008 Photographic grade chemicals - Test methods - Part 12 (ISO 10349-12:1992, IDT)

3.1 Physical properties

Potassium sulfite (K_2SO_3) solution (650g/L) as a colorless or near colorless liquid, potassium sulfite relative molecular mass of 158.27.

3.2 Hazard

Potassium sulfite (K_2SO_3) solution (650g/L) no risk in taking the usual protection operation, avoid contact with acids.

3.3 HANDLING AND STORAGE

Potassium sulfite (K_2SO_3) solution (650g/L) should be stored in airtight containers at room temperature.

4 Requirements

Requirement in Table 1.

Table 1 Requirements

Project Test Limit Test Standard Terms Content /% ~ 44.5 46.0 7.1 Standard the mass fraction of heavy metals (Pb) /% ≤ 0.002 7.2 GB/T 20432.5-2007 the mass fraction of iron

(as Fe) /% $\leq$ 0.002 7.3 GB/T 20432.5-2007 the reaction of ammonia and silver nitrate
solution qualified 7.4 GB/T 20432.9-2007 GB/T 22409-2008/ISO 5990:2000