

ICS 37.040.30

CCS G 84



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

GB/T 22404-2008

**Photography -- Processing chemicals -- Specifications for
anhydrous sodium carbonate and sodium carbonate
monohydrate**

摄影 加工用化学品 无水碳酸钠和一水合碳酸钠

(English Translation)

Issued on: October 10, 2008

Implemented on: June 1, 2009

Issued by: Standardization Administration of China

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Foreword

This standard is identical with ISO 424:1994 "photographic processing chemicals --- anhydrous sodium carbonate and sodium carbonate monohydrate norms" (English Chinese Version).

This standard is equivalent translation ISO 424:1994.

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

--- "This International Standard" or "ISO 424" to "this standard";

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

--- Delete ISO 424:1994 Foreword Introduction;

--- The Chapter 2, "Normative references" listed in the part of the international standards with national standards instead of equivalent translation.

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 22404-2008/ISO 424:1994 Photography - Processing chemicals and anhydrous

sodium carbonate Carbonate monohydrate

1 Scope

This standard specifies the test method for a photographic grade anhydrous sodium carbonate and sodium carbonate monohydrate 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) Determination of halide content. GB/T 20432.6-2008 Photographic grade chemicals - Test methods - Part 6 (ISO 10349-6:1992, 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)

3.1 Physical properties

Anhydrous sodium carbonate (Na_2CO_3) as a white granular or powder, relative molecular mass of 105.99.

A hydrated sodium carbonate ($\text{Na}_2\text{CO}_3 \cdot \text{H}_2\text{O}$) as a white crystalline particles, relative molecular mass of 124.00.

3.2 Hazard

Sodium carbonate in no danger of taking the usual protection operation.

3.3 HANDLING AND STORAGE

Sodium carbonate 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 /% $\geq$ Anhydrous Monohydrate 98.0 98.5

7.1 7.1 this standard this standard the mass fraction of heavy metals (Pb) /% ≤ 0.001 7.2
GB/T 20432.5-2007 the mass fraction of iron (as Fe) /% ≤ 0.002 7.3 GB/T 20432.5-2007
GB/T 22404-2008/ISO 424:1994