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

GB/T 20432.12-2008

**Photography -- Photographic-grade chemicals -- Test methods
-- Part 12: Determination of density**

摄影 照相级化学品 试验方法 第12部分: 密度的测定

(English Translation)

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Table of Contents

Foreword
1 Scope
2 Normative references
3 Harmfulness
4 Instrument
4.2 Water bath
5 Sampling
6 Program
6.1 Calibration
6.2 Determination
7 Test report

Foreword

GB/T 20432 "Photographic-grade chemicals - Test methods" is divided into the following sections.

- Part 1. General;
- Part 2. Determination of matter insoluble in water;
- Part 3. Determination of ammonia insoluble;
- Part 4. Determination of residue on ignition;
- Part 5. Determination of heavy metals and iron content;
- Part 6. Determination of halide content;
- Part 7. Determination of alkalinity or acidity;
- Part 8. Determination of volatile matter;
- Part 9. silver nitrate and ammonia solution in the reactor;
- Part 10. Determination of sulfide;
- Part 11. Determination of relative density;
- Part 12. Determination of density;
- Part 13. Determination of pH.

This is Part 12 GB/T 20432 of.

This section identical with 10349-12 ISO .1992 "Photographic grade chemicals - Test methods - Part 12. Determination of density" (In English).

This section is equivalent translation ISO 10349-12:1992.

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

- a) "This part of ISO 10349" be replaced by "GB/T 20432 in this section."
- b) with a decimal point "." instead of a comma as the decimal point "."
- c) Remove the ISO 10349-12:1992 Foreword.
- d) ISO 10349-12:1992 Normative documents are referenced in ISO 10349-1:1992, and ISO 10349-1:1992 Online Has been revised to ISO 10349-1:2002, referenced in this section is GB/T 20432.1 (ISO 10349-1:2002, IDT).
- e) ISO 10349-13:2002 "Photographic grade chemicals - Test methods - Part 13. pH measurement" Standard 2002 Years to be included in the ISO 10349 series of standards, ISO 10349-12:1992 was published in 1992 did not exist ISO 10349-13:2002, the standard for completeness, this part of the conversion of ISO 10349-12:1992 to incorporate it into the this series of standards.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the photosensitive material by the National Standardization Technical Committee (SAC/TC102) centralized.

This section drafted by. China Lucky Film Group Corporation.

Drafters of this section. Wang Jun.

GB/T 20432.12-2008/ISO 10349-12:1992 Photographic grade chemicals Test methods - Part 12.

Determination of density

1 Scope

This section GB/T 20432 specifies the general test method used in the photographic processing solution density determination.

2 Normative references

The following documents contain provisions which, through reference GB/T 20432 in this section constitute provisions of this section. For dated references, all subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encourage an agreement under this section Parties to study the latest versions of these

documents. For undated reference documents, the latest versions apply to this section.

GB/T 20432.1 Photographic grade chemicals - Test methods - Part 1. General (GB/T 20432.1-2006, ISO 10349-1:2002, IDT)

3 Harmfulness

For hazardous chemicals are handled general warning, execution GB/T 20432.1 requirements.

4 Instrument

4.1

densitometer to measure the density of 0.001 units.

4.2 Water bath

Pumps and heating systems to maintain a constant circulating water flow and temperature (± 0.05 °C). The water bath should be deep enough to ensure that the sample container the sample is below the surface, the water bath temperature of 25 °C.

5 Sampling

Executive GB/T 20432.1 requirements.

6.1 Calibration

Details on calibration, inspection instrument manufacturers instructions. Relative density deionized or distilled water at 25 °C 0.99704 calibration.

6.2 Determination

In a clean, dry hydrometer tube was added 100mL sample, and the tube placed in a water bath (4.2), the sample and temperature of the water bath After the balance, according to the instructions for the instrument (4.1) measure the density with the densitometer.

7 Test report

The test report shall state the method used and test results.

The test report shall also mention all operating details of this part of GB/T 20432 is not provided, or are considered to be optional operation for details, and details of anything that might affect the test results of the event.

The test report shall include all information required to complete the sample identification.

GB/T 20432.12-2008/ISO 10349-12:1992