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

GB/T 20432.3-2008

**Photography -- Photographic-grade chemicals -- Test methods
-- Part 3: Determination of matter in ammonium hydroxide
solution**

摄影 照相级化学品 试验方法 第3部分：氨水不溶物的测定

(English Translation)

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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 3 GB/T 20432 of.

This part identical with ISO 10349-3. measuring ammonia insolubles 1992 "Photographic grade chemicals - Test methods - Part 3 Fixed "(in English).

This section is equivalent translation ISO 10349-3:1992.

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 10349-3:1992 Foreword.
- d) ISO 10349-3:1992 Normative documents are referenced in ISO 10349-1:1992, and ISO 10349-1:1992 has been Revised as 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 Was included in the ISO 10349 series of standards, ISO 10349-3:1992 was published in 1992 did not exist ISO 10349-13:2002, the standard for completeness, this part of the conversion of ISO 10349-3:1992 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 20432.3-2008/ISO 10349-3:1992 Photographic grade chemicals Test methods - Part 3.

Determination of ammonia insolubles

1 Scope

This section GB/T 20432 specifies the photographic grade chemicals ammonia insolubles (precipitate with ammonia, calcium, magnesium formed) Determination of common experiment method.

2 Normative references

The following documents contain provisions which, through reference GB/T 20432 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this

section, however, encouraged to reach under this section Parties to research agreement to use 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

General warnings and dangers in GB/T 20432 used hazardous symbols, execution GB/T 20432.1 requirements.

4 Reagents

General requirements should be consistent with the provisions of GB/T 20432.1 of.

4.1 Ammonium oxalate solution

Dissolving 40g of ammonium oxalate monohydrate $[(\text{NH}_4)_2\text{C}_2\text{O}_4 \cdot \text{H}_2\text{O}]$, risk rating for >] in 500mL of water, and then Diluted with water to 1000mL.

4.2 Diammonium phosphate $[(\text{NH}_4)_2\text{HPO}_4]$ solution

Dissolving 10g diammonium phosphate $[(\text{NH}_4)_2\text{HPO}_4]$ in 50mL of water, then diluted with water to 100mL.

4.3 Aqueous ammonia (NH_4OH) solution of (1 + 9)

Slowly 10mL density of about 0.91 ammonia (risk rating for) was added to 90mL of water and mix well.

4.4 Aqueous ammonia (NH_4OH) solution of (39 + 1)

Slowly 25mL density of about 0.91 ammonia (risk rating for) was added to 975mL of water and mix well.

5 Instruments

5.1

burning crucible with a capacity of 100mL or more, according to the nature of the sample, the selection of ceramics, aluminum, platinum or quartz crucible and other materials.

5.2

muffle furnace, capable of maintaining a high temperature of 600 °C.

5.3

filter, ash-free, medium porosity (10µm ~ 15µm).

5.4

dryer equipped with an appropriate amount of desiccant.

6 Sampling

Executive GB/T 20432.1 requirements.

GB/T 20432.3-2008/ISO 10349-3:1992