

ICS 77.040.30

CCS H12



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

GB/T 21994.2-2008

**Chemical analysis of magnesium fluoride - Part 2:
Determination of moisture content - Gravimetric method**

氟化镁化学分析方法 第2部分：湿存水含量的测定 重量法

Issued on: June 9, 2008

Implemented on: December 1, 2008

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Method summary
- 4 Instrument
- 5 Sample
- 6 Analysis
- 6.3 Determination

Foreword

GB/T 21994 "Chemical analysis of magnesium fluoride" is divided into eight sections.

- Part 1. Preparation and storage of test samples;
- Part 2. Determination of the weight of water in the wet method;
- Part 3. Determination of distillation of fluorine content - thorium nitrate volumetric method;
- Part 4. Determination of magnesium content - EDTA volumetric method;
- Part 5. Determination of calcium content by flame atomic absorption spectrometry;
- Part 6. Determination of silicon dioxide content - Molybdenum blue spectrophotometric method;
- Part 7. Determination of iron oxide content phenanthroline spectrophotometry;
- Part 8. Determination of sulfate content of barium sulfate gravimetric method. This is Part 2. This part is proposed by the China Nonferrous Metals Industry Association. The non-ferrous metal part by the National Standardization Technical Committee. This section is Hunan Nonferrous fluorine chemical limited liability company, China Nonferrous Metals Industry Institute of Standards Metrology and Quality is responsible for drafting. This section is drafted. Hunan Nonferrous fluorine chemical limited liability company. Participated in the drafting of this section. Fluoride Chemicals Co., Ltd., Silver fluoride limited liability company. The main drafters of this section. Li Zhijian, Liao Zhihui, Chen Xiang Yu, Zhu Liang, Xu Jin Xue, Wang Jianping, Guo Xianhui, Bo, Li Ye. Chemical analysis of magnesium fluoride Part 2. Determination of the weight of water in the wet method

1 Scope

GB/T 21994.2-2008 is the Chinese national standard on chemical analysis of magnesium fluoride - part 2: determination of moisture content - gravimetric method, in the field of metallurgy. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 9 June 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 December 2008. Classification: ICS 77.040.30, CCS H12. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section specifies the determination method hygroscopic magnesium fluoride in water. This section applies to the determination of magnesium fluoride in hygroscopic water. Measuring range. $\leq 1.5\%$.

2 Normative references

The following documents contain provisions which, through reference in this text, constitute provisions of this part. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this section, however, encourage the parties to this part of the research agreement Whether the latest versions of these documents. For undated references, the latest edition to adapt to this section.

GB/T 21994.1-2008 Chemical analysis of magnesium fluoride - Part 1. Sample Preparation and Storage

3 Method summary

The sample was dried at 110 °C and measuring the amount of loss.

4 Instrument

4.1 weighing bottle. diameter 45mm, flat type.

4.2 electric oven. capable of controlling the temperature of 110 °C $\pm$ 5 °C.

5 Sample

The specimen shall comply with GB/T 21994.1-2008 in

3.2 requirements. Step

6 Analysis

6.1 Sample Weigh 2.5g of the original sample (5), accurate to 0.001g.

6.2 Determination of the number of Independent of the two measurements, the mean value.

6.3 Determination

6.3.1 The sample (6.1) placed in a pre-bake 2h at $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ in an electric oven (4.2) inside and cool in a desiccator weighing bottle (4.1), the lid was weighed (accurate to 0.001g).

6.3.2 Place the sample weighing bottle (6.3.1) where the temperature was adjusted to $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ in an electric oven, the lid of the bottle rack on top do not cover strict. At the same time placed in an oven with a diameter slightly larger than the weighing bottle table dish, bake 2h, remove the cap put on the table dish, and place all dry Dry vessel. After cooling, remove the sheet pan, cap tightly, and weighed (accurate to 0.001g). 7. Calculation of analytical results According to formula (1) to calculate the mass fraction of water in the wet (%).