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

GB/T 22660.8-2008

**Chemical analysis methods of lithium fluoride - Part 8:
Determination of sulphate content - Barium sulphate
gravimetric method**

氟化锂化学分析方法 第8部分：硫酸根含量的测定 硫酸钡重量法

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Foreword

GB/T 22660 "Methods for chemical analysis of lithium 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 by flame atomic absorption spectrometry;
- 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 8 GB/T 22660 of. 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 responsible for drafting unit. Fluoride Chemicals Co., Ltd., China Nonferrous Metals Industry Standards and Metrology Institute for Quality. Participated in the drafting of this section. Hunan Nonferrous fluorine chemical limited liability company, Aluminum Corporation of China Zhengzhou Research Institute. The main drafters of this section. Xue Xu Jin, Xu army, Li Yongqiang, Shi Xiuhua, Wang Hongxing, Chen Yichun, Zhu Liang, Li Zhijian, Wang Chunxia, \u200b\u200bLan Wen Hui. Methods for chemical analysis of lithium fluoride Determination of sulfate content. Part

1 Scope

GB/T 22660.8-2008 is the Chinese national standard on chemical analysis methods of lithium fluoride - part 8: determination of sulphate content - barium sulphate 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 29 December 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 November 2009. Classification: ICS 77.120, CCS H60. 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 GB/T 22660 specifies the method for determination of lithium fluoride in sulfate content. This section applies to the determination of fluoride, lithium sulfate content. Measuring range. $\leq 0.60\%$.

2 Normative references

The following documents contain provisions which, through reference

GB/T 22660 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revised edition are not adapted to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated references, the latest edition of this adaptation section.

GB/T 22660.1-2008 Chemical analysis methods of lithium fluoride - Part 1. Preparation and storage of test samples.

3 Method summary

Sample was dissolved with boric acid and hydrochloric acid, in an acidic medium, to sulfate ions with barium chloride, barium sulfate, calcined at 850 °C After weighing.

4 Reagents

4.2 HCl (1 + 1).

4.3 barium chloride solution. Weigh 100g of barium chloride dihydrate crystals, dissolved diluted with water to 1L.

4.4 sulfate ($\rho = 1.84\text{g/mL}$).

5 Instruments and equipment

5.1 Crucible. Diameter 30mm, high 30mm.

5.2 Oven. to control the temperature at $110\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$.

5.3 Furnace temperature. the temperature can be controlled at $850\text{ }^{\circ}\text{C} \pm 20\text{ }^{\circ}\text{C}$.

6 Sample

The specimen shall comply with GB/T 22660.1-2008 in

3.3 requirements.

7 Procedure

7.1 Sample Weigh 0.5g sample (6), accurate to 0.0001g, denoted m1 0.

7.2 Determination of the number of Independently measured twice and averaged.

7.3 blank test Along with the sample (7.1) blank test.