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

GB/T 22662.6-2008

**Chemical analysis methods of potassium fluotitanate - Part 6:
Determination of iron - Flame atomic absorption spectrometric
method**

氟钛酸钾化学分析方法 第6部分：铁含量的测定 火焰原子吸收光谱法

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Method summary
- 4 Reagents
- 5 Instruments and equipment
- 6 Sample
- 7 Procedure
- 7.4 Determination

Foreword

GB/T 22662 "potassium titanate fluorine chemical analysis method" is divided into nine 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 fluorine potassium titanate ammonium ferric sulfate volumetric method;
- Part 4. Determination of silicon content - Molybdenum blue spectrophotometric method;
- Part 5. Determination of calcium content by flame atomic absorption spectrometry;
- Part 6. Determination of iron content by flame atomic absorption spectrometry;
- Part 7. Determination of lead content by flame atomic absorption spectrometry;
- Part 8. Determination of the chlorine content of mercuric nitrate volumetric method;
- Part 9. Determination of phosphorus pentoxide content - Molybdenum blue spectrophotometric method. This is Part 6 GB/T 22662 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 drafted. Hunan Nonferrous fluorine chemical limited liability company. Participated in the drafting of this section. Fluoride Chemicals Co., Ltd., Zhengzhou Research Institute, Aluminum Corporation of China, Hengyang City State Friends Chemical Technology Co., Ltd. The main drafters of this section. Li Zhijian, Zhu Liang, Liao Zhihui, Li Yongqiang, Wang Hui, Chen Chun, Feng Jingdong, Liu Zhihong Huang Ju in particular, Liu Min. Potassium titanate fluorine chemical analysis Part 6. Determination of iron content Flame Atomic Absorption Spectrometry

1 Scope

GB/T 22662.6-2008 is the Chinese national standard on chemical analysis methods of potassium fluotitanate - part 6: determination of iron - flame atomic absorption spectrometric 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 77.120.10, CCS H61. 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 22662 specifies the method for determination of fluorine potassium titanate iron content. This section applies to the determination of fluorine potassium titanate iron content. Measuring range. $\leq 0.5\%$.

2 Normative references

The following documents contain provisions which, through reference

GB/T 22662 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 22662.1-2008 fluorine potassium titanate chemical analysis methods - Part 1.
Preparation and storage of test samples

3 Method summary

Sample was dissolved in sulfuric acid, atomic absorption spectrometer at 248.3nm, air - acetylene flame measured iron.

4 Reagents

Sulfuric acid 4.1. 1 + 1.

4.2 iron standard solution. Weigh 0.1430g ferric oxide reference reagent (drying at 105 °C 2h), plus 2mL of sulfuric acid (4.1), dissolve, wash 1000mL Volumetric flask, dilute to the mark. This solution 1mL containing 0.100mg iron.

5 Instruments and equipment

Atomic absorption spectrometer, with iron hollow cathode lamp.

6 Sample

The specimen shall comply with GB/T 22662.1-2008 in

3.3 requirements.

7 Procedure

7.1 Sample Weigh 0.5g sample was dried (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 sample blank test.

7.4 Determination

7.4.1 The sample (7.1) into gold dish, add 10mL sulfuric acid (4.1), on the low temperature heating furnace to take to make white smoke, remove cooling,