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YS

**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 535.1-2009

Replacing YS/T 535.1-2006

**Chemical analysis methods of sodium fluoride. Part 1:
Determination of moisture content. Gravimetric method**

氟化钠化学分析方法 第1部分：湿存水含量的测定重量法

(English Translation)

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Foreword

YS/T 535 "chemical analysis of sodium fluoride" is divided into 10 parts.

- Part 1. Determination of the weight of water in the wet method;
- Part 2. Determination of distillation of fluorine content - thorium nitrate titration volumetric method;
- Part 3. Determination of silicon content - Molybdenum blue spectrophotometric method;
- Part 4. Determination of iron content phenanthroline spectrophotometry;
- Part 5. Determination of soluble sulfate turbidity method;
- Part 6. Determination of carbonate content - Gravimetric method;
- Part 7. Determination of acidity and law;
- Part 8. Water-insoluble content - Gravimetric method;
- Part 9. Determination of chlorine turbidity method;
- Part 10. Preparation and storage of test samples.

This is Part 1.

The partial replacement of YS/T 535.1-2006 (formerly GB/T 8158.1-1987).

This part is YS/T 535.1-2006 "sodium fluoride chemical analysis method for the determination of wet weight of water storage," the amendment and YS/T 535.1-2006

increased compared to the like precision and quality assurance and control content.

The non-ferrous metal part by the National Standardization Technical Committee and centralized.

This part of the Fushun Aluminum Co., Ltd., China Nonferrous Metals Industry Institute of Standards Metrology and Quality is responsible for drafting.

This part of the Fushun Aluminum Co., Ltd.

1 Scope

This section provides the determination of sodium fluoride content in water in the wet.

This section applies to the determination of fluoride content in water in the wet.

Measurement range (mass fraction). $\leq 2.00\%$.

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 reference documents, the latest versions apply to this section.

YS/T 535.10-2009 Methods for chemical analysis of sodium fluoride - Part 10. Sample preparation and storage

3 Method summary

Sample at $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ dried and tested for loss.

4 Instruments and equipment

4.1

weighing bottle. diameter of about 45mm, flat type.

4.2

electric oven. capable of controlling the temperature of $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$.

5 Sample

The specimen shall conform YS/T 535.10-2009 4.1 requirements.

6.1 Sample

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) previously placed in an electric oven $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ of (4.2) in the drying 2h, and cooled to room temperature in a desiccator 6.3.2 the weighing bottle containing the sample is placed temperature was adjusted to $110\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ in an electric oven (4.2), will stand in the bottle do not cover Gaiyan.

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 all placed in a desiccator

7 Calculation of analytical results

According to formula (1) to calculate the mass fraction of water in the wet (%).

100 (1)