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NONFERROUS METAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

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YS/T 273.13-2006

Replacing YS/T 272-1994

**Chemical analysis methods and physical properties of
cryolite - Part 13: Preparation and storage of test samples**

冰晶石化学分析方法和物理性能测定方法

第 13 部分：试样的制备和储存

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Foreword

YS/T 273 *Chemical analysis methods and physical properties of cryolite* is divided into 13 parts:

- Part 1: Determination of moisture content - Gravimetric method;
- Part 2: Determination of ignition loss;
- Part 3: Determination of fluoride content by distillation-thorium nitrate titration;
- Part 4: Determination of aluminium content - EDTA titration method;
- Part 5: Determination of sodium by flame atomic absorption spectrometric method;
- Part 6: Determination of silica content by the molybdenum blue photometric;
- Part 7: Determination of iron content by orthophenanthroline photometric method;
- Part 8: Determination of sulphate content - Barium sulphate gravimetric method;
- Part 9: Determination of phosphorous pentoxide content - Molybdenum blue photometric method;
- Part 10: Determination of alumina content by gravimetric method;
- Part 11: Determination of sulphur content by X-ray fluorescence spectrometric method;
- Part 12: The atomic absorption spectrophotometric method for the determination of calcium oxide content;
- Part 13: Preparation and storage of test samples.

This Part is Part 13.

This Part is a revision of YS/T 272-1994. Except for editing and organization, other contents are basically unchanged.

This Part replaces YS/T 272-1994.

This Part was proposed by and shall be under the jurisdiction of National Technical Committee on Nonferrous Metal.

Fushun Aluminium Factory AND China Nonferrous Metals Industry Standard and Metrology Quality Institute are responsible for the drafting of this Part.

Chemical analysis methods and physical properties of cryolite - Part 13: Preparation and storage of test samples

1 Scope

This Part specifies the preparation and storage of raw and dry test samples of cryolite.

2 Normative references

The terms in the following documents become the terms of this Part by reference to this Part. For dated references, all subsequent amendments (not including errata content) or revisions do not apply to this Part. However, parties to agreements that are based on this Part are encouraged to study whether the latest versions of these documents can be used. For undated references, the latest edition applies to this Part.

GB/T 4291, Synthetic cryolite

3 Preparation and storage of test samples

3.1 Laboratory samples

Laboratory samples shall be prepared and stored using the methods specified in GB/T 4291.

3.2 Preparation of raw test samples

For the determination of certain geometric properties, for the testing of certain physical and physicochemical properties, and for the determination of moisture content.

Take about 300 g of laboratory samples (3.1) and place them in a sealed container. The container should be almost filled with the sample.

3.3 Preparation of dry test samples

For the determination of chemical tests, and certain geometric properties as well as certain physical and physicochemical tests.

3.3.1 Test sample grinding

Grind and sieve the test samples until all pass through a sieve with an aperture of 0.125 mm. Thoroughly mix the sieved samples and dry them at about 110 °C.

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