YS

NONFERROUS METAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

ICS 71.100.10
H 21

YS/T 581.2-2006

Determination of chemical contents and physical properties of aluminium fluoride - Part 2: Determination of ignition loss

氟化铝化学分析方法和物理性能测定方法

第 2 部分 烧减量的测定

Issued on: March 07, 2006 **Implemented on: August 01, 2006**

Issued by: National Development and Reform Commission

Table of Contents

Foreword

YS/T 581 "Determination of chemical contents and physical properties of aluminium fluoride" is divided into 15 parts:

- Part 1: Determination of moisture content by gravimetric method
- Part 2: Determination of ignition loss
- Part 3: Determination of fluoride content distillation-thorium nitrate titration volumetric method
- Part 4: Determination of aluminium by the EDTA volumetric 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 by barium sulphate gravimetric method
- Part 9: Determination of phosphorous content by molybdophoshoric lieu photometric method
- Part 10: Determination of sulphur content by X-ray fluorescence spectrometric method
- Part 11: Preparation and storage of test samples
- Part 12: Determination of size distribution - Sieving method
- Part 13: Measurement of the angle of repose
- Part 14: Determination of untamped density
- Part 15: Free alumina content

This Part is Part 2.

This Part was proposed by and shall be under the jurisdiction of National Technical Committee 243 on Nonferrous Metals of Standardization Administration of China.

Fushun Aluminium Factory and China Nonferrous Metals Industry Standard and

Determination of chemical contents and physical properties of aluminium fluoride - Part 2: Determination of ignition loss

1 Scope

This Part specifies the determination method for ignition loss of aluminium fluoride.

This Part applies to the determination of ignition loss of aluminium fluoride. Determination range: 0.20%~8.00%.

2 Method principle

The test portion is burned at 550°C±5°C for 30 min. From the difference between the mass of the test portion before and after burning, calculate the ignition loss.

3 Instruments and equipment

3.1 High-temperature furnace: The temperature can be controlled at 550°C±5°C.

3.2 Platinum crucible: Diameter is 30 mm; height is 40 mm; with lid.

4 Test samples

It shall meet the requirements of 3.2 in YS/T 581.11.

5 Analytical procedure

5.1 Test portion

When the ignition loss is not more than 1%, weigh 5 g of test sample (4). When the ignition loss is more than 1%, weigh 2.5 g of test sample (4). The mass of the test portion is recorded as m_0.

5.2 Number of determinations

This is an excerpt of the PDF (Some pages are marked off intentionally)

------ The End ------