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

YS/T 581.17-2010

**Determination of chemical contents and physical properties of
aluminium fluoride. Part 17: Determination of flow time**

氟化铝化学分析方法和物理性能测定方法 第17部分：流动性的测定

(English Translation)

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Foreword

YS/T 581 "aluminum fluoride chemical analysis methods and determination of physical performance" is divided into 17 parts.

--- Part 1. Determination of the content of water in wet weight method;

--- Part 2. Determination of burning reductions;

--- Part 3. distillation - thorium nitrate volumetric method for the determination of fluorine content;

--- Part 4. Determination of aluminum content - EDTA volumetric method;

--- Part 5. Determination by flame atomic absorption spectrometry sodium content;

--- Part 6. molybdenum blue spectrophotometric determination of silicon dioxide content;

--- Part 7. phenanthroline spectrophotometric determination of ferric oxide content;

--- Part 8. Determination of sulfate content barium sulphate gravimetric method;

--- Part 9. molybdenum blue spectrophotometric determination of phosphorus pentoxide content;

Part --- Article 10. X-ray fluorescence spectrometric method for the determination of sulfur content;

--- Part 11. sample preparation and storage;

--- Part 12. Determination of particle size distribution by sieving;

--- Part 13. Determination of angle of repose;

--- Part 14. Determination of bulk density;

--- Part 15. Determination of free alumina content;

--- Part 16. Determination of Elements in X-ray fluorescence spectrometry;

--- Part 17. Determination of flow.

This is Part 17.

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This part of the draft law duplicate reference AS2879.9-2002 "Determination of aluminum oxide Part IX of the flow of time," the preparation, and Degree of consistency AS2879.9-2002 of non-equivalent.

The non-ferrous metal part by the National Standardization Technical Committee (SAC/TC243) centralized.

This section drafted by the Aluminum Corporation of China Zhengzhou Research Institute.

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Ltd. participated in the drafting.

1 Scope

YS/T 581 This part specifies the method for measuring the liquidity of aluminum fluoride.

This section applies to the determination of the inherent liquidity aluminum fluoride through a special funnel.

2 Principle of the method

A certain quality of aluminum fluoride through a special funnel, flow time measurement sample all you want. Liquidity to flow when required Room to represent.

3 Instruments and devices

3.1

Instrument. usually manual or automatic measuring device measurement, automatic measurement apparatus shown in Figure 1.

3.2

Funnel. Exact making a stainless steel funnel (Fig. 2), the apparatus outlet diameter of 3.95mm ~ 4.00mm wear resistant stainless steel. The diameter shall be calibrated. The funnel needed to use dry and clean, otherwise the flow of time can not be repeated.

3.3

Timer. Stop watch or other automated means to accurately 0.1s.

3.4

Balance. a sense of the amount of 0.1g.

3.5

Test sieve. sieve 500 μ m, for removing large particle size.

1 Automatic flow time measurement device

4 Sample Preparation

4.1

The sample is placed in a tray, tile thickness of not more than 5mm, the balance in the test chamber atmosphere 2h.

4.2

The sample was equilibrated by the test sieve (3.5) to remove large particles, the lower part of the screen the sample into three parts, each part about 105g ~ 120g, each for measuring times.