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NONFERROUS METAL INDUSTRY STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

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YS/T 575.19-2007

Replacing YS/T 575.19-2006

**Methods for chemical analysis of bauxite –
Part 19: Determination of the loss on ignition –
Gravimetric method**

铝土矿石化学分析方法

第 19 部分: 烧碱量的测定 重量法

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Foreword

YS/T 575-2007 “Methods for chemical analysis of bauxite” is the modification of YS/T 575-2006 (formerly GB/T 3257-1999), AND it is consisted of 24 parts in total:

Part 1: Determination of aluminum oxide content - EDTA titrimetric method

Part 2: Determination of silicon dioxide content - Gravimetric-molybdenum blue photometric method

Part 3: Determination of silicon dioxide content - Molybdenum blue photometric method

Part 4: Determination of iron oxide content - Potassium titrimetric method

Part 5: Determination of iron oxide content - Orthophenanthroline photometric method

Part 6: Determination of titanium dioxide content - Diantipyrylmethane photometric method

Part 7: Determination of calcium oxide content - Flame atomic absorption spectrophotometric method

Part 8: Determination of magnesium oxide content - Flame atomic absorption spectrophotometric method

Part 9: Determination of potassium oxide, sodium oxide content - Flame atomic absorption spectrophotometric method

Part 10: Determination of manganese oxide content - Flame atomic absorption spectrophotometric method

Part 11: Determination of chromium oxide content - Flame atomic absorption spectrophotometric method

Part 12: Determination of vanadium pentoxide content - N-benzoyl-N-phenylhydroxylamine photometric method

Part 13: Determination of zinc content - Flame atomic absorption spectrophotometric method

Part 14: Determination of total content of rare earth oxide - Tribromo-arsenazo photometric method

This part replaces the standard previously issued as follows:

- YS/T 575.19-2006 (formerly GB/T 3257.21-1999).

Methods for chemical analysis of bauxite –

Part 19: Determination of the loss on ignition -

Gravimetric method

1 Scope

This part specifies the determination method for the loss on ignition of bauxite.

This part applies to determination of the loss on ignition in the bauxite ore, AND the determination range is 10% ~ 30%.

2 Normative references

The provisions in following documents become the provisions of this part through reference in this part. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this part; however, parties who reach an agreement based on this part are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

YS/T 575.22-2007 Methods for chemical analysis of bauxite - Determination of hygroscopic moisture on gravimetric method

3 Principle of method

PLACE the sample into the crucible which is preheated to constant weight; in the $375\text{ }^{\circ}\text{C} \pm 25\text{ }^{\circ}\text{C}$ high temperature furnace, HEAT it for 10 min. COVER the crucible and TRANSFER it into another high temperature furnace; at $1075\text{ }^{\circ}\text{C} \pm 25\text{ }^{\circ}\text{C}$, HEAT it to constant weight. As for the result of the loss on ignition, USE the amount of the raw moisture to calibrate it.

4 Instrument

4.1 Flat type vial: the size is sufficient to contain the required amount of sample, AND the layer density of sample is about 5 mg/mm^2 .

9 Inspection report

The inspection report shall include the following:

- a) The identification of the sample;
- b) The criterion adopted;
- c) Test results: the average of the two measurements, keeping two significant figures;
- d) Anomalies observed during the inspection process;
- e) Operations not covered by this part and the referenced standard methods, or operations that may be selected;
- f) Test date.

_____ **END** _____

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