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

YS/T 715.5-2009

**Methods for chemical analysis of selenium dioxide. Part 5:
Determination of water insoluble content. Gravimetric analysis**

二氧化硒化学分析方法 第5部分：水不溶物含量的测定 重量法

(English Translation)

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Foreword

YS/T 715 "selenium dioxide chemical analysis method" is divided into five parts.

- Part 1. Determination of the amount of selenium dioxide, sodium thiosulfate titration;
- Part 2. arsenic, cadmium, iron, mercury, lead content - Inductively coupled plasma atomic emission spectrometry;
- Part 3. Determination of chlorine content of silver chloride turbidimetric method;
- Part 4. residue on ignition - Gravimetric method;
- Part 5. water-insoluble content - Gravimetric method.

This section YS/T Part 5 715.

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

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1 Scope

YS/T of the provisions of section 715 of the method for the determination of selenium dioxide in water-insoluble content.

This section applies to the determination of selenium dioxide in water-insoluble content. Determination of water insoluble matter when the present standard, according to the sample size and specifications of the value of the counter Operators insolubles resulting aqueous mass is not less than 1mg, its measurement range. 0.002% to 0.06%.

2 Method summary

After the sample is dissolved in water, filtered, washed with, dried and weighed.

3 Reagents and Instruments

Unless otherwise indicated in the analysis using only recognized as analytical grade reagents and distilled or deionized water or equivalent purity.

3.1

sand core glass crucible. a volume of 30mL, pore size of 5 μ m ~ 15 μ m.

3.2

vacuum suction filtration apparatus.

3.3

dryer.

3.4

electric oven. control the temperature at 105 °C ~ 110 °C.

3.5

Analysis of balance. a sense of the amount of 0.1mg.

4 Sample

Sample required uniform, dry and seal intact.

5.1 Sample

In dry conditions, quickly weighed about 50g sample, accurate to 0.001g.

5.2 Determination

Independent secondary measurement averaged.

5.2.1

The sample (5.1) in 250mL beaker, 100mL of distilled water was added, dissolved by heating, cooled to room temperature.

5.2.2

has been used in 105 °C ~ 110 °C constant weight of the sand core glass crucible was filtered, and the filtrate was washed with distilled water to pH 6 so far.

5.2.3

The sand core glass crucible placed in an electric oven at a temperature of 105 °C ~ 110 °C dried to constant weight.

Calculation results of the analysis of 6 Water-insoluble content of the quality of water insoluble fraction of water-insoluble substance and its value is expressed in%, according to formula (1).

100 (1)

Where.

The obtained results are shown to fourth place after the decimal point.