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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3598-2013

Determination of sulfur content in pyrites ore. High frequency combustion with infrared absorption method

硫铁矿中硫含量的测定 高频燃烧红外吸收法

(English Translation)

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Foreword

Accordance with the standards GB/T 1.1-2009 given rules drafted.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Zhuhai Entry-Exit Inspection and Quarantine Bureau, People's Republic of China Shandong Entry-Exit Inspection and Quarantine Bureau.

1 Scope

This standard specifies the method of high frequency combustion infrared absorption method for the determination of sulfur content of pyrite.

This standard applies to natural pyrite, the determination of sulfur concentrate sulfur content, which is measured in the range of 10.00% ~ 40.00%.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 2460 and take Pyrites and concentrate sample preparation method

3 Method summary

The sample is heated in an induction furnace in an oxygen stream in combustion, sulfur dioxide stream generated by the oxygen contained in the measuring cell to the infrared, absorption of sulfur dioxide Receiving a specific wavelength infrared, which absorbed

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energy is proportional to the concentration of sulfur dioxide, according to the change in energy receiving detector can be measured to give the corresponding sulfur content.

4 Reagents and materials

Unless otherwise indicated, the reagents used were of analytical grade.

4.1
Magnesium perchlorate. water, particle size of 0.7mm ~ 1.2mm.

4.2
caustic soda asbestos. granular.

4.3
tungsten particles. a sulfur content less than 0.01%.

4.4
tin particles. a sulfur content less than 0.01%.

4.5
iron flux. the sulfur content is less than 0.001%.

4.6
Potassium. content greater than 99.9%, and cooled at 105 °C drying 1h, dryer.

4.7
Oxygen. than 99.5% purity.

4.8
Power gas source. compressed air or nitrogen, the impurity (water and oil) content of less than 0.05%.

5 Device

5.1
frequency induction infrared carbon and sulfur analyzer.

5.2
Ceramic crucible. carbon and sulfur special ceramic crucibles. Before use in a high temperature furnace (1100 °C) burning oxygen-enriched atmosphere 2h, and then kept in a dry Vessel.

5.3
Analysis of balance. a sense of the amount of 0.1mg.

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5.4

high-temperature furnace. maximum use temperature of 1100 °C.

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