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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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Determination of ignition loss in coal gangue

煤矸石烧失量的测定

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Foreword

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

This Standard was proposed by China National Coal Association.

This Standard shall be under the jurisdiction of National Technical Committee 42 on Coal of Standardization Administration of China (SAC/TC 42).

The drafting organizations of this Standard: Chongqing Institute of Geological Mineral Resources, Xinjiang Uygur Autonomous Region Institute for Testing and Research of Coal and Coal Bed Methane.

The main drafters of this Standard: Zhu Zhenzhong, Hu Feng, Zhao Xuedao, Wang Chunlian, Lu Xiaohai.

Determination of ignition loss in coal gangue

1 Scope

This Standard specifies the method summary, apparatus, analytical procedures, calculation of analytical results and method precision for the determination of ignition loss in coal gangue.

This Standard applies to the determination of ignition loss in coal gangue.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition dated applies to this document. For undated references, the latest edition of the referenced documents (including all amendments) applies to this document.

GB/T 33687, *General testing rules for gangue*

3 Method summary

Coal gangue sample, which is dried at $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$, is burned to a constant weight at $800^{\circ}\text{C} \pm 10^{\circ}\text{C}$; and the loss on ignition is calculated based on the loss of mass.

4 Apparatus

4.1 Porcelain crucibles: 10 mL.

4.2 Forced air drying oven: equipped with an automatic temperature control device which maintains the temperature within the range of $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$.

4.3 Muffle furnace: the hearth has a sufficient constant zone which maintains the temperature at $800^{\circ}\text{C} \pm 10^{\circ}\text{C}$.

4.4 Analytical balance: with a scale division of 0.1 mg.

4.5 Desiccator: containing desiccant.

4.6 Heat resistant porcelain plates or asbestos plates.

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