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PEOPLE'S REPUBLIC OF CHINA

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**Determination of total carbon, combustible carbon and
carbonate carbon in solid residues from coal and coke**
煤和焦炭的固体残余物中全碳、可燃碳和碳酸盐碳的测定方法

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Determination of total carbon, combustible carbon and carbonate carbon in solid residues from coal and coke

1 Scope

This Standard specifies the method summary, reagent materials, apparatus, determination procedures, calculation of results, method precision and calculation method for combustible carbon for the determination of total carbon and carbonate carbon in solid residues from coal and coke.

This Standard applies to the solid residues from coal and coke.

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 218, *Determination of carbon dioxide content in the mineral carbonates associated with coal*

GB/T 476, *Determination of carbon and hydrogen in coal*

GB/T 483, *General rules for analytical and testing methods of coal*

GB/T 30733, *Determination of total carbon, hydrogen and nitrogen content in coal – Instrumental method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

solid residues from coal and coke

Solid matters produced from the combustion or reaction of coal or coke.

5 Reagent materials

5.1 The reagent materials for the determination of total carbon using the gravimetric method shall be as required in GB/T 476.

5.2 The reagent materials for the determination of total carbon using the instrumental method shall be as required in GB/T 30733.

5.3 The reagent materials for the determination of carbonate carbon shall be as required in GB/T 218.

6 Apparatus

6.1 The apparatus for the determination of total carbon using the gravimetric method shall be as required in GB/T 476.

6.2 The apparatus for the determination of total carbon using the instrumental method shall be as required in GB/T 30733.

6.3 The apparatus for the determination of carbonate carbon shall be as required in GB/T 218.

7 Determination procedures

7.1 Determination of total carbon

Determine the content of total carbon in sample as specified in GB/T 476 and GB/T 30733. GB/T 476 is the arbitration method.

7.2 Determination of carbonate carbon

The content of carbonate oxygen dioxide in sample is determined as specified in GB/T 218; then the content of carbon dioxide is converted into the content of carbonate (see 8.2).

8 Calculation of results

8.1 Total carbon

The content of total carbon in sample is calculated as specified in GB/T 476 or GB/T 30733.

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