



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 483-2007

**General rules for analytical and testing methods of coal
(English Translation)**

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Foreword

This Standard corresponds to BS 1016-100.1999 "Methods for Analysis and Testing of Coal and Coke - Part 100.General Introduction and Methods for Reporting Results" and ISO 1213-2.1992 "Solid Mineral Fuels - Vocabulary - Part 2.Terms Relating to Sampling, Testing and Analysis". The consistency degree of the standard and the above 2 standards is not equivalent. The main differences are as follows.

- The technical contents of this Standard only include "3 Definition and Symbol", "5 Result Report Basis" and "Result Expression" in BS 1016-100.1999.In addition, "Coal Sample", "Determination" and "Solution Concentration" are added.

- Some terms relevant to the coal analysis test in ISO 1213-2.1992 are adopted as part of Terms and Definitions in this Standard. According to ISO 1213-2.1992 "Hard Coal and Coke - Mechanical Sampling - Part 1.General Introduction", some terms and definitions in this Standard are modified.

This Standard replaces GB/T 483-1998 "General Rules for Analytical and Testing Methods of Coal".

Compared with GB/T 483-1998, The following modifications are made in this Standard.

- "Terms and Definitions" is added (Chapter 3 in this edition);
- "Method precision - the statistical calculation formula for the repeatability limit

and reproducibility critical difference" is added (Chapter 5 in Edition-1998; Chapter 8 in this edition);

- The list of relevant standards is deleted in "Scope" (Chapter 1 in this edition).

This Standard was proposed by the China National Coal Association.

This Standard shall be under the jurisdiction of the National Technical Committee on Coal of Standardization Administration of China.

Drafting organization of this Standard. the Coal Analysis Laboratory of Coal Research Institute.

Chief drafting staffs of this Standard. Shi Yuying, and Duan Yunlong.

The previous editions replaced by this Standard are as follows.

- GB 483-1981, GB 483-1987, and GB/T 483-1998.

NATIONAL STANDARD

OF THE PEOPLE'S REPUBLIC OF CHINA

Replacing GB/T 483-1998

General Rules for Analytical and

Testing Methods of Coal

1 Scope

This Standard specifies the following contents relevant to coal analysis test.

terms and definitions, symbols, analysis test of coal sample, solution concentration, determination, test result expression, result conversion, method precision and test record.

This Standard is applicable to various coal analysis test method standards, documents, books and periodicals, teaching materials and manuals.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. For dated reference, subsequent amendments (excluding correction) or revisions of these publications do not apply. However, the parties who enter into agreement based on this Standard

are encouraged to investigate the possibility of applying the most recent editions of the standards. For undated references, the latest edition of the normative document referred to applies.

GB 474 Method for Preparation of Coal Sample

GB 475 Sampling for Commercial Coal

GB/T 6379.2 Accuracy (Trueness and Precision) of Measurement Methods and Results Part 2. Basic Method for the Determination of Repeatability and Reproducibility of a Standard Measurement Method (GB/T 6379.2-2004, ISO 5725-2:1994, IDT)

GB/T 19494.1 Mechanical Sampling of Coal - Part 1. Method for Sampling (GB/T 19494.1-2004, ISO 13909-1:2001, ISO 13909-2:2001, ISO 13909-3:2001, NEQ)

3 Terms and Definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1.1 Coal sample

A portion of representative coal taken out of coal for determining some features of coal.

3.1.2 Seam-sample of coal

Coal sample taken from one seam in the excavating working face, exploring tunnel or gallery as required.

3.1.10 Common sample of coal

Coal sample taken for multiple tests.

3.1.11 Moisture sample of coal

Coal sample taken specifically for the determination of total moisture.

3.1.12 Air-dried sample of coal

Coal sample reaching air drying state.

3.1.13 General-analysis test sample of coal

Coal sample, crushed to the particle size less than 0.2mm, reaching the air drying state and used for the determination of most physical and chemical properties.

4.1 Sampling and Preparation of Coal Sample

The coal sample for analysis test (hereinafter referred to as coal sample) is taken according to GB/T 19494.1 or GB 474; and prepared according to GB/T

4.2 Preservation of Coal Sample

Moisture sample of coal shall be put in the non-absorbent and airtight sealed container; general analysis test sample of coal shall be put in the tight vessel after the sample reaches air-dried state.

4.3 Reserve Coal Sample

Reserve coal sample is taken separately in some stage of the original coal sample preparation, and shall be in as less brokenness and division as possible with the particle size and quality in accordance with the requirements of the relevant standard(s).

5.1 Solution

As for the solution applied in the coal analysis test, all the solutions with water as the solvent are referred as "aqueous solution" shortened as "solution"; as for the solution with other liquids as the solvent, the solvent name is put before "solution", e.g. the solution with ethyl alcohol (or benzene) as the solvent is referred to as "ethyl alcohol (or benzene) solution".