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**General Rules for Testing
Methods of Coal Preparation**

选煤试验方法一般规定

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Foreword

This Standard was drafted as per the rules specified 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 for Standardization of Coal (SAC/TC 42).

Drafting organizations of this Standard: Tangshan Research Institute of China Coal Technology & Engineering Group, Xi'an Dingli Fuel Testing Co., Ltd., and Tangshan Branch of Tiandi Science & Technology Co., Ltd.

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General Rules for Testing Methods of Coal Preparation

1 Scope

This Standard specifies the relevant terms and definitions, symbols, test coal sample, dense preparation, result expression, test record, and test report of coal preparation.

This Standard is applicable to various coal preparation test method standards, norms, reports, books, teaching materials and manuals.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 474 Method for the Preparation of Coal Sample

GB/T 475 Method for Manual Sampling of Commercial Coal

GB/T 483 General Rules for Analytical and Testing Methods of Coal

GB/T 3715-2007 Terms Relating to Properties and Analysis of Coal

GB/T 7186-2008 Terms Relating to Coal Preparation

GB/T 8170 Rules of Rounding off for Numerical Values & Expression and Judgement of Limiting Values

GB/T 19494.1 Mechanical Sampling of Coal – Part 1: Method for Sampling

GB/T 19494.2 Mechanical Sampling of Coal – Part 2: Method for Sample Preparation

3 Terms and Definitions

The following terms and definitions and those ones stipulated in GB/T 3715-2007 and GB/T 7186-2008 are applicable to this document. For ease of use, some terms and

3.8 Dense

Liquid or solution with density greater than water, which is used for coal float-and-sink analysis. The dense can be divided into organic dense, zinc chloride dense and inorganic high-density dense.

[GB/T 7186-2008, definition 5.4.1]

3.9 Float-and-sink analysis; float-and-sink test

The coal samples are divided into different density grades with different dense.

[GB/T 7186-2008, definition 3.2.2]

3.10 Test coal's degradation in water

The test adding water to the tumbling bucket containing coal and its associated minerals, overturning for different time to measure the degree of its re-crushing, which includes the test for degradation in water of coal in drum, and assessment of the liability to breakdown in water of materials associated with coal seams.

3.11 The ratio of degradation in water

In the determination results of degradation in water, the ratio between the mass of 10 μ m fine clay and total mass of 0.5mm minus sieve.

3.12 Flotation test

The test aims to determine the floatability and flotation process of coal dust (slurry).

3.13 Batch-flotation test

Flotation test performed by the single-tank flotation machine.

[GB/T 7186-2008, definition 5.6.40]

3.14 Timed-release analysis

The unit flotation test with once coarse selection and multiple fine selection process.

[GB/T 7186-2008, definition 5.6.41]

3.15 Natural falling test

The discrete settling test against the coal slurry sample containing no flocculant or coagulant.

3.16 Flocculant performance test

from the repeated determination in short term performed under the repeated conditions, i.e. in the same laboratory, by the same operator, using the same instrument, against the same specimen.

4 Coal Sample

4.1 Collection and preparation of coal sample

Perform as per GB/T 474, GB/T 475, GB/T 19494.1 and GB/T 19494.2.

4.2 Storage of coal sample

The water sample shall be packed in the sealed container; the sample for general test shall be dried to the air-dry state, then sealed and stored in the sample bag with waterproof function.

4.3 Analysis test sampling

The coal sample shall be mixed fully before sampling, the multi-point sampling method shall be taken for the sampling process.

5 Dense Preparation

5.1 Commonly-used dense

The commonly-used laboratory dense is divided into organic and inorganic dense; the inorganic dense is the high-density dense and zinc chloride solution; while the organic dense is preparation solution between carbon tetrachloride and benzene, and the preparation solution between carbon tetrachloride and methenyl bromide.

5.2 Dense preparation

The inorganic high-density dense shall be prepared by dilution method; the diluted dense can be concentrated by evaporation method, so that improve the density. The preparation of zinc chloride organic dense can refer to Table 1.

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