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GB/T 35059-2018

Determination on Reabsorbed Water of Upgraded Coal

提质煤复吸水分测定方法

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Table of Contents

Foreword.....	3
1 Scope.....	4
2 Normative References	4
3 Terms and Definitions	4
4 Method Summary.....	5
5 Reagents	5
6 Instruments and Equipment	5
7 Coal Sample Preparation	6
8 Test Procedure	6
9 Result Expression	7
10 Method Precision	7
11 Test Report.....	8
Appendix A (Informative) An Example of Test Report on Reabsorbed Water of Upgraded Coal.....	9

Determination on Reabsorbed Water of Upgraded Coal

1 Scope

This Standard specifies the terms and definitions, method summary, reagents, instruments and equipment, coal sample preparation, test procedure, result expression, method precision and test report of determination on reabsorbed water of upgraded coal.

This Standard is applicable to the determination on reabsorbed water of upgraded low-rank coal.

2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. The latest version (including all the modifications) of references without a specified date is also applicable to this Standard.

GB/T 211-2017 Determination of Total Moisture in Coal

GB/T 474 Method of Preparation of Coal Sample

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

GB/T 35062 Terms on Low Rank Coal Upgrading Technology

3 Terms and Definitions

Terms and definitions that are defined in GB/T 35062 are applicable to this document. In order to make it convenient for usage, some terms and definitions in GB/T 35062 are listed out again as follows.

3.1 Upgraded Coal

Upgraded coal refers to coal products that are obtained through certain upgrading and processing technology.

[GB/T 35062-2018, Definition 3.3]

3.2 Reabsorption

6.5 Analytical balance: division value: 0.001 g.

7 Coal Sample Preparation

In accordance with the stipulation in GB/T 474 or GB/T 19494.2, prepare coal sample whose granularity is less than 6 mm and mass not less than 1.25 kg. Before weighing-taking the coal sample, thoroughly mix up coal sample in the sealed container. The duration of mixing shall be not less than 1 min.

8 Test Procedure

8.1 Pre-test Preparation

8.1.1 Pre-test preparation of test using constant-temperature cabinet: prepare potassium chloride saturated solution: add 200 mL of distilled water or deionized water into 90 g of potassium chloride. After thoroughly mixing it up, transfer it into a 500 mL beaker; reserve for later usage.

8.1.2 Pre-test preparation of test using constant-temperature and constant-humidity cabinet: add sufficient distilled water or deionized water into the constant-temperature and constant-humidity water cabinet.

8.2 Stabilize Test Environment

Set the temperature of the constant-temperature cabinet or the constant-temperature and constant-humidity cabinet to 30.0 °C; set the relative humidity of the constant-temperature and constant-humidity cabinet to 83%. When test is conducted using the constant-temperature cabinet, place the previously prepared potassium chloride saturated solution into the constant-temperature zone of the constant-temperature cabinet. Before test, the duration of stabilization shall be not less than 1 h.

8.3 Weigh Coal Sample

Weigh-take 10 g ~ 12 g of test coal sample (accurate to 0.001 g) whose granularity is less than 6 mm. The mass of the coal sample shall be marked as m_1 . Promptly place it into the previously weighed weighing bottle; evenly lay the coal sample in the weighing bottle.

8.4 Place Coal Sample

Open the cap of the weighing bottle; place the weighing bottle into the constant-temperature cabinet or the constant-temperature and constant-humidity cabinet.

8.5 Coal Sample Mass Record

2 h after placing the weighing bottle into the constant-temperature cabinet or the

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