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

GB/T 18856.5-2008

Replacing GB/T 18856.5-2002

**Test methods for coal water mixture - Part 5: Determination of
the stability**

水煤浆试验方法 第5部分：稳定性测定

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Foreword

This revision of GB/T 18856 "CWS Test Method" is divided into seven sections.

- Part 1. Sampling;
- Part 2. Determination of the concentration;
- Part 3. screening tests;
- Part 4. Determination of apparent viscosity;
- Part 5. Determination of stability;
- Part 6. Determination of density; Part
- Article 7. pH value measurement. This standard replaces GB/T 18856-2002 "Test methods for quality of coal water." This standard compared with GB/T 18856-2002, the main differences are as follows:
 - Deleted - Part 6. Determination of calorific value coal water slurry;
 - Deleted Part 7. CWS industry analysis;
 - Deleted Part 8. Determination of total sulfur in coal water slurry;
 - Deleted Part 10. Determination of the ash fusion CWS;
 - Deleted Part 11. Determination of Hydrocarbon CWS;
 - Deleted Part 12. CWS nitrogen determination method;

1 Scope

GB/T 18856.5-2008 is the Chinese national standard on test methods for coal water mixture - part 5: determination of the stability, in the field of petroleum and related technologies. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification

calls it up - which in practice is how most foreign buyers meet it. It was issued on 29 July 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 April 2009. Classification: ICS 75.160, CCS D21. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section GB/T 18856 specifies the CWS dynamic stability and static stability of a summary, laboratory conditions, the instrument provided Equipment, precision of the method and test report measuring step, the results of calculations. This section applies to a variety of CWS.

2 Terms and definitions

The following terms and definitions apply

GB/T 18856 in this section.

2.1 CWS oscillation after a certain time to maintain its properties even capacity.

2.2 CWS place after a certain time to maintain its ability homogeneous properties.

3 Method summary

3.1 Dynamic Stability A certain amount of coal-water slurry sample evenly placed in a container under certain specified conditions oscillation time, the first container was inclined to make free CWS Outflow vessel was then vertically inverted 8min. The residue weighing of the container, in order to account for the quality of the residue CWS CWS specimen Score represents the dynamic stability of coal-water slurry.

3.2 Static stability A certain amount of coal-water slurry sample evenly placed in a container, under specified conditions after standing 7d, first tilt the container so that the free flow of CWS Out, and then the vessel vertically inverted 8min. The residue was weighed quality container, in order to account for residues CWS CWS sample mass fraction Number represents the static stability of CWS.

4 Laboratory conditions

CWS stability test should be performed at room temperature 18 °C ~ 28 °C of. During the test, the test chamber temperature as much as possible to maintain a constant temperature changed Of no more than 3 °C.

5 Equipment

5.1 shaker. reciprocating shaker amplitude (40 ± 2) mm, frequency (240 ± 20) min⁻¹, the top plate length 42cm, width 30cm, with meter Timer and continuous vibration than 6h.

5.2 Industrial balance. the largest weighing 1000g, a sense of the amount of 0.1g.

5.3 small specimens (receiver) Bottle. high-pressure polyethylene products, volume of about 180mL, height of about 14cm, small mouth, smooth wall.

5.4 large specimen (reception) Bottle. high-pressure polyethylene products, volume of about 500mL, height of about 11cm, big mouth, smooth wall.