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

GB/T 26917-2011

**Determination method of filter aiding effect of flocculants in
vacuum filtration system**

真空过滤系统中絮凝剂助滤效果测定方法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This revised standard adopts ISO 10086-2:2004 "Coal Preparation Plant with flocculant evaluation methods - Part 2. rotary vacuum filter system EC flocculant used as filter aids. " this standard adopts ISO 10086-2:2004 when the technical content adjustments were made, the main technical differences and the reasons given in Appendix B. Main technical inside Yung differences are as follows.

- Define the scope of the standard;
- Normative references cited in all of our current valid standards;
- Redefined the method of taking the test sample;
- Increased slime water characteristics measuring method;
- Increasing the calculation method of the cake moisture;
- Remove the rotary vacuum drum and disc vacuum filter immersion, drying and cake discharge schematic;
- Deleted instance flocculant dosage calculation;
- In Appendix A to the "standard reg number and ISO 10086-2:2004 reg number control";
- The Appendix B to the "Standard and ISO 10086-2:2004 technical differences and their reasons." this standard Normative documents correspondence between consistency of the following documents.

GB/T 212 industrial analysis of coal (GB/T 212-2008, ISO 1171:1997, NEQ) GB/T 477 coal screening test method (GB/T 477-2008, ISO 1953:1994, MOD) GB/T 18712 PREPARATION flocculant performance test method (GB/T 18712-2002, ISO 10086-1:2000, NEQ) this standard made the following editorial changes.

- Replace the original Appendix B Appendix C;

--- Added Appendix D.

The standard proposed by China Coal Industry Association.

This standard coal by the National Standardization Technical Committee (SAC/TC42) centralized.

This standard was drafted. Tangshan Coal Science Research Institute.

1 Scope

This standard specifies the method for determination of coal slurry by vacuum filtration system flocculant filter aid effect.

This standard applies to coal preparation plant flotation, tailings when measured coal and primary slime vacuum filtration filter aid flocculant performance.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 212 industrial analysis of coal (GB/T 212-2008, ISO 1171:1997, NEQ) GB/T 477 coal screening test method (GB/T 477-2008, ISO 1953:1994, MOD) GB/T 18712 PREPARATION flocculant performance test method (GB/T 18712-2002, ISO 10086-1:2000, NEQ) MT/T 808 Coal technical inspection Principle 3 the amount of flocculant solution into the beaker containing the sample of coal slurry. Filter filtration after flocculation of coal slurry, and the resulting the filter cake was weighed, the cake was dried and then weighed. Yield and water through the filter cake to evaluate the effect of filter aids flocculants.

4 Instruments and equipment

4.1

Test with a vacuum pump 1, ultimate vacuum $0.5 \times 10^5 \text{Pa}$;

4.2

vacuum gauge 1. Accuracy $\pm 5\%$;

4.3

plug door 2. Path not less than 2mm;

4.4

glass beaker. 1L, 50mL;

4.5

vacuum flask 1. volume of 500mL;

4.6

Filter 1. composed by the filter plates and filter cloth, shown in Figure 1;

4.7

tube. glass or plastic;

4.8

electric mixer 2. rotational speed 0r/min ~ 1000r/min;

4.9

Syringe. 1mL, 2mL, 5mL, 10mL and 50mL;

4.10

cylinder. volume 1L, indexing is 10mL;

4.11

ruler. dividing the value of 1mm;

4.12

enamel tray. 1;

4.13

Taiwan oven 1. temperature control range of 25 °C ~ 200 °C;

4.14 1 set electronic balance. the largest weighing 2kg, a sense of the amount of 10mg;

4.15

timer Taiwan.