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

**中华人民共和国国家标准**

**GB/T 7702.6-2008**

**Replace GB/T 7702.6-1997**

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**Test Method for Granular Activated Carbon from  
Coal-Determination of Methylene Blue  
Adsorption**

**煤质颗粒活性炭试验方法  
亚甲蓝吸附值的测定**

**Issued on February 01, 2008**

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**Standardization Administration of the People's Republic of  
China**

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## Foreword

GB/T 7702 *Test method for granular activated carbon from coal* is divided into:

- Part 1: Determination of moisture;
- Part 2: Determination of particle size;
- Part 3: Determination of hardness;
- Part 4: Determination of packing density;
- Part 5: Determination of adsorption capacity of water;
- Part 6: Determination of methylene blue adsorption;
- Part 7: Determination of iodine number;
- Part 8: Determination of phenol adsorption;
- Part 9: Determination of ignition temperature;
- Part 10: Determination of service life against benzene and chloroethane vapors;
- Part 13: Determination of service life against benzene and chloroethane vapors;
- Part 14: Determination of sulphur capacity;
- Part 15: Determination of ash content;
- Part 16: Determination of pH value;
- Part 17: Determination of floatation ratio;
- Part 18: Determination of caramel adsorption;
- Part 19: Determination of carbon tetrachloride (CCl<sub>4</sub>) desorption;
- Part 20: Determination of pore volume and specific surface area.

This is part 6 of GB/T 7702.

This part will replace GB/T 7702.6-1997 *Standard test method for methylene blue adsorption of granular activated carbon from coal*.

Comparison with GB/T 7702.6-1997, main changes of this part are as follows:

- a) specify the requirements of water used in laboratory
- b) specify the level and specifications of filter paper used in analyzing process
- c) increase the eliminating method of moisture in methylene blue test dose
- d) change the oscillation and adsorption time of test portion to methylene blue solution from 20 min to 30 min
- e) specify the calibration precision of methylene blue solution
- f) specify the weighing scope of test portion and improve the weighing accuracy
- g) added Clause 3 “Terms and definitions”.

This Standard is proposed by China North Industries Group Corporation.

The responsible drafting organization of this Standard is Shanxi Xinhua Chemical Co., Ltd.

The chief drafting staff of this Standard includes Cheng Qingjun, Chi Guangxiu, Yuan Yidong, Zhang Xu, Li Weibing, Zhao Jijun and Li Ruomei.

This Standard was issued on 1987 and revised on 1997 for the first time.

# Test Method for Granular Activated Carbon from Coal-Determination of Methylene Blue Adsorption

## 1 Scope

This section specifies the determination principle, determination procedures, calculation results, etc. of methylene blue absorption of granular activated carbon from coal.

This section applies to the determination of methylene blue absorption of granular activated carbon from coal and also applies to powdered activated carbon from coal.

## 2 Normative references

The articles contained in the following documents have become this part of GB/T 7702 when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this part. For the undated documents so quoted, the latest editions shall be applicable to this part.

GB/T 601-2002 Chemical Reagent-Preparations of Standard Volumetric Solutions

GB/T 625 Chemical Reagent--Sulfuric Acid (GB/T 625-2007, ISO 6353-2: 1983, NEQ)

GB/T 665 Chemical reagent—Copper(II)sulfate pentahydrate (GB/T 665-2007, ISO 6353-2: 1983, NEQ)

GB/T 1263 Chemical reagent - Disodium hydrogen phosphate dodecahydrate (GB/T 1263-2006, ISO 6353-2: 1983, NEQ)

GB/T 1272 Chemical reagent—Potassium iodide (GB/T 1272-2007, ISO 6353-2: 1983, NEQ)

GB/T 1274 Chemical reagent—Potassium dihydrogen phosphate (GB/T 1274-1993, neq ISO 6353-3: 1987 R79)

GB/T 1914 Chemical analytical filter paper

GB/T 6682 Water for Analytical Laboratory Use-Specification and Test Methods (GB/T 6682-1992, neq ISO 3696:1987)

## 3 Terms and definitions

For the purpose of this part of GB/T 7702, the following terms and definitions shall apply.

### 3.1



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