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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 7702.7-2008

Replace GB/T 7702.7-1997

**Test Method for Granular Activated Carbon from
Coal-Determination of Iodine Number**

煤质颗粒活性炭试验方法

碘吸附值的测定

Issued on February 01, 2008

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and Quarantine of the People's Republic of China**

**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 (CCl₄) desorption;
- Part 20: Determination of pore volume and specific surface area.

This is part 7 of GB/T 7702.

This part will replace GB/T 7702. 7-1997 “*Test Method for Granular Activated Carbon from Coal-Determination of Iodine Number*”.

This part is revised to adopt U.S. ASTM D 4607:1994(reconfirmed in 2006) “*Standard Test*

Method of Activated Carbon Iodine Number". Revisions of this part are as follows:

- a) According to provisions of our national standard, quantitative unit is modified to be legal measurement of our country.
- b) Difference value of two results measured in the same laboratory: U.S. ASTM D 4607:1994 stipulates that it is no greater than 5.6%. According to this part, it shall not be greater than 2%.
- c) Difference value of results measured at two difference laboratories: U.S. ASTM D 4607: 1994 stipulates that it is no greater than 10.2%. According to this part, it shall not be greater than 5%.
- d) Increasing provisions on test report.

Comparison with GB/T 7702. 7-1997, main differences of this part are as follows:

- a) Revise determination procedures to come in line with U.S. ASTM D 4607 : 1994(reconfirmed in 2006);
- b) Test sieve is changed to $\Phi 200 \times 50 - 0.075/0.050$ square hole;
- c) Increasing chapter 3 "Terms and definitions".

This standard is proposed by and under the jurisdiction of China North Industries Group Corporation.

Drafting unit of this standard: Shanxi Xinhua Chemical Co., Ltd.

Main drafters of this standard: Chi Guangxiu, Yuan Yidong, Cheng Qingjun, Li Weibing, Zhao Jijun, Pang Huisheng, Li Ruomei.

This standard is first issued on 1987 and revised on 1997 for the first time.

Test Method for Granular Activated Carbon from Coal

—Determination of Iodine Number

1 Scope

This part specifies granular activated carbon from coal—iodine number determination principle, determination procedures, calculation results and other contents.

This part applies to granular activated carbon from coal—determination of iodine number as well as 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 603-2002 Chemical reagent--Preparations of reagent solutions for use in test methods (ISO 6353-1: 1982, NEQ)

GB/T 675 Chemical reagent—Iodine (GB/T 675-1993, neq ISO 6353-3: 1987R68)

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 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 apply.

3.1

Capacity of iodine adsorption

Activated carbon adsorption of iodine in milligrams after activated carbon and iodine

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