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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 7702.18-2008

Replace GB/T 7702.18-1997

**Test Method for Granular Activated Carbon from
Coal-Determination of caramel adsorption**

煤质颗粒活性炭试验方法

焦糖脱色率的测定

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

This is part 18 of GB/T 7702.

This part will replace GB/T 7702.18-1997 *Standard test method for granular activated carbon from coal-Determination of caramel adsorption*.

Comparison with GB/T 7702.18-1997, main changes of this part are as follows:

- a) Changed the standard structural according to GB/T 1.1-2000 Directives for standardization-Part 1: Rules for the structure and drafting of standards and GB/T 20001.4-2001 Rules for drafting standards --Part 4:Methods of chemical analysis;
- b) Added Preparation and calibration of caramel stock solution with method A;
- c) Added Clause 3 “Terms and definitions”.

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

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

The chief drafting staff of this part includes Han Chongyun, Li Weibing, Zhao Jijun, Chi Guangxiu, Yuan Yidong, Zhang Xu, Li Ruomei.

This part replaces the following historical editions issued:

- GB/T 7702.18-1987, GB/T 7702.18-1997;

Test Method for Granular Activated Carbon from Coal-Determination of Caramel Adsorption

1 Scope

This part specifies the principle, steps and result calculation, etc. for the determination of caramel adsorption of granular activated carbon from coal.

This part applies to the determination of caramel adsorption of granular activated carbon from coal, as well as other granular 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 639 Chemical Reagent-Sodium Carbonate Anhydrous (GB/T 639-2008, ISO 6353-2:1983, NEQ)

GB/T 658 Chemical Reagent-Ammonium Chloride (GB/T 658-2006, ISO 6353-2 :1983, NEQ)

GB/T 687 Chemical Reagent-Glycerol (GB/T 687-1994, neq ISO 6353-3:19S7)

GB 1259 Working Chemical-Potassium Dichromate

GB/T 1914 Chemical Analytical Filter Paper

GB/T 6682 Water for Analytical Laboratory Use--Specification and Test Methods (GB/T 6682-2008, ISO 3696, 1987, MOD)

3 Terms and definitions

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

3.1

Caramel adsorption

The adsorption ability of activated carbon to the caramel test solution under the test conditions specified.

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