

ICS 65.050  
CCS B 72



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

**GB/T 44352-2024**

---

**General requirements of activated carbon for fuel evaporative  
emission system**

燃油蒸发排放系统用活性炭通用要求

**Issued on: September 29, 2024**

**Implemented on: September 29, 2024**

---

**Issued by: State Administration for Market Regulation;  
Standardization Administration of the PRC**

## Table of Contents

|                                                        |   |
|--------------------------------------------------------|---|
| Preface... III 1 Scope .....                           | 1 |
| 2 Normative references .....                           | 1 |
| 3 Terms and Definitions .....                          | 1 |
| 4 Technical requirements .....                         | 1 |
| 5 Test methods .....                                   | 2 |
| 5.1 Apparent density .....                             | 2 |
| 5.2 Butane working capacity .....                      | 3 |
| 5.3 Butane retention .....                             | 3 |
| 5.4 Strength .....                                     | 3 |
| 5.5 Water resistance .....                             | 3 |
| 5.6 Water .....                                        | 3 |
| 5.7 Ash content .....                                  | 3 |
| 5.8 Particle size distribution .....                   | 3 |
| 5.9 pH value .....                                     | 4 |
| 6 Inspection Rules .....                               | 4 |
| 6.1 Inspection categories .....                        | 4 |
| 6.2 Inspection Items .....                             | 4 |
| 6.3 Sampling Rules .....                               | 4 |
| 6.4 Judgment Rules .....                               | 5 |
| 6.5 Expression of Judgment Result .....                | 5 |
| 7 Marking, packaging, transportation and storage ..... | 5 |
| 7.1 Logo .....                                         | 5 |
| 7.2 Packaging .....                                    | 5 |
| 7.3 Transportation .....                               | 5 |
| 7.4 Storage .....                                      | 5 |

## Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing

organization of this document does not assume the responsibility for identifying patents.

This document was proposed by the State Forestry and Grassland Administration.

This document is under the jurisdiction of the National Technical Committee for Standardization of Forest Chemical Products (SAC/TC 558).

This document was drafted by: Institute of Forest Products Chemical Industry, Chinese Academy of Forestry, Fujian Xinsen Carbon Industry Co., Ltd., Xuzhou Tianzheng Activated Carbon Factory, Anhui Chuangyu New Materials Technology Co., Ltd., and China Automotive Research Institute Automotive Inspection Center (Tianjin) Co., Ltd.

The main drafters of this document are: Sun Kang, Jiang Jianchun, Xu Ruting, Lin Peng, Cheng Zhenguo, Qiu Yue, Zhong Chongzhi, He Tianfeng, Lu Xincheng, Xu Wei, Wang Ao, Li Bei, Tan Chang, Zhang Yanping, and Liu Ying.

General requirements for activated carbon used in fuel evaporative emission systems

## 1 Scope

This document specifies the technical requirements, inspection rules, marking, packaging, transportation and storage of activated carbon for fuel evaporative emission systems.

The corresponding test methods were developed.

This document applies to activated carbon for fuel evaporative emission systems in spherical, cylindrical or amorphous granular form prepared from wood raw materials by activation.

production, trade and circulation.

## 2 Normative references

GB/T 6678

GB/T 12496.1

GB/T 12496.2

GB/T 12496.3

GB/T 12496.4

GB/T 12496.6

GB/T 12496.7

GB/T 20449

### 3 Terms and definitions

There are no terms or definitions that require definition in this document.

### 4 Technical requirements

4.1 Appearance. Black spherical, columnar or amorphous granular.

4.2 The technical indicators of activated carbon for spherical and amorphous granular fuel evaporation emission systems shall comply with the requirements of Table 1.

The technical indicators of general activated carbon should comply with the requirements of Table 2.

Table 1 Technical specifications of spherical and amorphous granular activated carbon for fuel evaporative emission systems

| Project indicators                  | Model TGQ 1100 A | TGQ 1300 A   | TGQ 1500 A   | TGQ 1600 A   | TGQ 1100 B   | TGQ 1300 B   |
|-------------------------------------|------------------|--------------|--------------|--------------|--------------|--------------|
| Apparent density/(g/mL)             | 0.25~0.32        | 0.24~0.30    | 0.25~0.32    | 0.25~0.32    | 0.25~0.32    | 0.25~0.32    |
| Butane working capacity/ (g/100 mL) | $\geq 11.00$     | $\geq 13.00$ | $\geq 15.00$ | $\geq 16.00$ | $\geq 11.00$ | $\geq 13.00$ |
| Butane retention/%                  | $\leq 18.00$     | $\leq 18.00$ | $\leq 18.00$ | $\leq 18.00$ | $\leq 18.00$ | $\leq 18.00$ |