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GB/T 47051-2026

Technical specification for the thermal regeneration of spent activated carbon

废活性炭热再生技术规范

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the National Forestry and Grassland Administration. This document is under the jurisdiction of the National Technical Committee on Standardization of Forest Chemical Products (SAC/TC558). This document was drafted by: Research Institute of Chemical Industry of Forest Products, Chinese Academy of Forestry; Zhejiang Yuyue Environmental Protection Technology Co., Ltd.; Jiangsu Qian Huihe Environmental Protection Recycling Co., Ltd., Jiangsu Provincial Environmental Engineering Technology Co., Ltd., Jiangsu Yaqi Environmental Protection Technology Co., Ltd., Qingdao Guanbaolin Active Chemicals Co., Ltd. Carbon Co., Ltd., Hangzhou Xingyu Carbon Environmental Protection Technology Co., Ltd., Guangdong Jiantai Industrial Co., Ltd., Honeycomb Activated Carbon Co., Ltd., Tianyi Activated Carbon Co., Ltd. Charcoal Co., Ltd., Xinjiang Meijing Tiancheng Environmental Protection Technology Co., Ltd., Qingdao Duoleke Environmental Technology Co., Ltd., Fujian Zhixing Charcoal Industry Co., Ltd. Limited Company, Guangdong Huide Technology Co., Ltd., Changzhou Bizhiyuan Renewable Resources Utilization Co., Ltd., Nantong Binhai Activated Carbon Co., Ltd., Hebei Bo Lianhuan Environmental Protection Treatment Co., Ltd., Shandong Greed Environmental Protection Technology Co., Ltd., Shanxi Ruida Renewable Resources Technology Co., Ltd., Shandong Hengtai Lihua Environmental Technology Co., Ltd., Jiangxi Aikedao Environmental Technology Development Co., Ltd., Jiangsu Jiashengwang Environmental Technology Co., Ltd., Nanjing Forestry University

Shanxi Coal Chemistry Institute, Chinese Academy of Sciences, and Qingdao University of Technology. The main drafters of this document are. Liu Junli, Xu Wei, Sun Kang, Zuo Songlin, Wu Ping, Sun Bin, Zhou Haiyun, Wei Chenfu, Yang Lijun, Xu Weixing, and Yan Chaoqun. Huang Yuming, Zhou Xiaopei, Niu Yuehong, Liu Yi, Wei Anguo, Feng Weiming, Huang Peng, Yao Zhengfei, Wei Xiaojian, Guan Zhiguang, Shi Donghuang, Xu Changyou, Zheng Xianqiang Chen Chunming, Zeng Zequan, Zhang Qingjian, Zhou Xu, Hu Shengchun, Fan Mengmeng, Lu Xincheng, Xu Ruting, Zhang Yanping, Liu Ying. Technical Specifications for Thermal Regeneration of Waste Activated Carbon

1 Scope

GB/T 47051-2026 is the Chinese national standard covering reactivating spent carbon in a furnace - driving off and destroying the adsorbed organics without burning away the carbon itself, the yield and the restored adsorption capacity, and the treatment of the off-gas which carries everything the carbon had captured. First edition. It was issued on 28 January 2026 and has been in force since 1 August 2026, as a first edition. The document is under the responsibility of the National Forestry and Grassland Administration. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the thermal regeneration procedure, general requirements, thermal regeneration process, pollutant emissions, and regenerated activated carbon for waste activated carbon thermal regeneration technology. Requirements for testing, packaging, and sales are outlined, along with corresponding verification methods. This document applies to the thermal regeneration of waste granular activated carbon and waste powdered activated carbon derived from wood, coal, and synthetic materials.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 2589-2020 General Rules for Calculating Comprehensive Energy Consumption

GB 5085.1 Standard for Identification of Hazardous Wastes - Corrosivity Identification

GB 5085.2 Standard for Identification of Hazardous Wastes - Initial Screening for Acute Toxicity

GB 5085.3 Identification Standard for Hazardous Wastes - Leaching Toxicity Identification

GB 5085.4 Standard for Identification of Hazardous Wastes - Flammability Identification

GB 5085.5 Standard for Identification of Hazardous Wastes - Reactivity Identification

GB 5085.6 Standard for Identification of Hazardous Waste - Identification of Toxic Substance Content

GB/T 7702 Test methods for coal-based granular activated carbon

GB 8978-1996 Integrated Wastewater Discharge Standard

GB/T 12496 (all parts) Test methods for wood-based activated carbon

GB 14554-1993 Emission Standard for Odor Pollutants

GB 16297-1996 Integrated Emission Standard for Air Pollutants

GB 17167 General Rules for the Configuration and Management of Energy Measuring Instruments in Energy-Using Units