

ICS 13.020.10

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

GB/T 46658-2025

Green product assessment - Biobased materials and products

绿色产品评价 生物基材料及制品

Issued on: October 31, 2025

Implemented on: May 1, 2026

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

Table of Contents

1.Scope	1
2 Normative References	1
3.Terms and Definitions	2
4 Product Categories	2
5.Evaluation Requirements	2
5.1 Basic Requirements	2
5.2 Evaluation Indicator Requirements	2
6.Evaluation Methods 4. Appendix A (Informative) Example of a Carbon Footprint Report for Bio-based Materials and Products 5 A.1 Basic Information 5 A.2 Purpose 6 A.3 Functional Units/Declaration Units 6 A.4 System Boundary 6 A.5 Data rounding and allocation principles 6 A.6 Data Collection 7 A.7 Carbon Footprint Calculation Methods A.8 Interpretation of Results and Suggestions for Improvement References	9

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 Technical Committee on Standardization of Bio-based Materials and Degradable Products and the National Green Product Evaluation Standardization General Group. This document was prepared by the National Technical Committee on Standardization of Bio-based Materials and Degradable Products (SAC/TC380) and the National Technical Committee on Standardization of Environmental Management. It is under the jurisdiction of the Technical Committee (SAC/TC207). This document was drafted by: China National Institute of Standardization, Beijing Technology and Business University, Anhui Fengyuan Biotechnology Co., Ltd., and Zhejiang Hisun Biotechnology Co., Ltd. Materials Co., Ltd., Hefei Hengxin Life Technology Co., Ltd., Ningbo Jialian Technology Co., Ltd., and Fuling Technology Co., Ltd. Limited Company, Yuansu Huitong New Materials (Yangzhou) Co., Ltd., Guangdong Chongxi Environmental Protection Technology Co., Ltd., Anhui Huachi Environmental Protection Technology Co., Ltd. Chongqing Lianfa Plastics Technology Co., Ltd., Yichun Dahai Turtle Life Science Co., Ltd., Foshan Qingyue New Material Technology Co., Ltd. Company, Zhejiang Shanli High-Tech New Materials Co., Ltd., Beijing Microstructure Factory Biotechnology Co., Ltd., Ningbo Tianan Biomaterials Co., Ltd., Tongcheng Chemical (China) Co., Ltd., Shenzhen Zhengwang Environmental

Protection New Materials Co., Ltd., Shenzhen Guanghua Weiye Co., Ltd., Zhejiang Huafa Ecological Technology Co., Ltd. Technology Co., Ltd., Sinopec (Dalian) Petrochemical Research Institute Co., Ltd., Sichuan University, Tsinghua University, Donghua Engineering Technology Co., Ltd. Company, Huitong Beigong Biotechnology (Beijing) Co., Ltd. The main drafters of this document are. Xu Bingsheng, Zhu Yi, Weng Yunxuan, Hou Shan, Wang Shu, Zhao Lei, Diao Xiaoqian, Ji Chuanxia, Song Zijian, Sun Haihui, and Liu Yaochun. Huang Jili, Chen Zhiming, Yan Deping, Wang Xiong, Jiang Guilan, Shen Kunliang, Wei Jie, Wang Chunqiu, Zhou Jiushou, Xu Xuanming, Li Jialing, Zhao Yanchao, Zhang Jianhong Yang Yihu, Sun Yuanzheng, Zhou Feng, Ma Huixia, Wang Yuzhong, Li Xingliang, Guo Baohua, Chen Guoqiang, Pei Qiong, Jiang Suchen. Green Product Evaluation. Bio-based Materials and Products

1 Scope

GB/T 46658-2025 is the Chinese national standard covering assessing a biobased product - the biobased carbon content measured rather than declared, the feedstock and whether it competes with food, the energy and emissions of production, the end of life, and the indicators that decide the green label. First edition, in force from 1 May 2026. Issued on 31 October 2025, it has been in force since 1 May 2026.

This document specifies the evaluation requirements for green products based on bio-based materials and products, and describes the evaluation methods. This document applies to the green product evaluation of bio-based materials and products, including bio-based polymers, bio-based plastics, and bio-based synthetic chemicals. Evaluation of fiber, bio-based coatings, etc.

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 General Rules for Calculating Comprehensive Energy Consumption

GB/T 19001 Quality Management System Requirements

GB/T 19276.1 Determination of the final aerobic biodegradability of materials in aqueous culture medium by measuring the aerobic capacity in a closed respiration meter. Quantity method

GB/T 19276.2 Determination of the final aerobic biodegradability of materials in aqueous culture medium by measuring the amount of carbon dioxide released. method

GB/T 19277.1 Determination of the final aerobic biodegradability of materials under controlled composting conditions by measuring the amount of carbon dioxide released.
Methods Part

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