

ICS 91.100.01

CCS Q 10



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

GB/T 43353-2023

**Determination of odour emissions for building products-Test
chamber method**

建材产品的气味释放测试 环境测试舱法

Issued on: November 27, 2023

Implemented on: June 1, 2024

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

Table of Contents

Preface	1
1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Summary of methods	3
5 Test equipment and facilities	3
6 Sample preparation	8
7 Odor release and sample collection	8
8 Odor Evaluation Panel	9
9 Odor test methods	10
10 Product Classification	17
11 Test Report	17
Appendix A (Normative) Sample Container	18
Appendix B (Normative) Sample Preparation Method	20
Appendix C (Normative) Bearing ratio and coating amount of typical building materials products	22
Appendix D (normative) Environmental test chamber test conditions	24
Appendix E (normative) Basic smell ability screening	25
Appendix F (informative) Data statistics and calculation examples	27
Appendix G (Normative) Odor Intensity---Reference Baseline Method Training	29
Appendix H (Normative) Odor Intensity---Phase Method Training	32
Appendix I (normative) Odor concentration training	33
Appendix J (informative) Odor concentration result calculation example	34
Appendix K (informative) Classification of odor release levels of building materials products	37
Reference	38

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 be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

This document is proposed and coordinated by the China Building Materials Federation:

This document was drafted by: China National Testing and Testing Holding Group Co., Ltd., Zhibang Home Furnishing Co., Ltd., Foshan Jinshang Cloud Inspection Measurement Technology Service Co., Ltd., Qianqianzhou New Material Technology Group Co., Ltd., Shenzhen Zhongke Indoor Engineering Research Center Co., Ltd., Baidu Sheng New Materials Co., Ltd., Dongguan Dongjun Changhe Wood Industry Co., Ltd., University of Science and Technology Beijing, Beijing Institute of Graphic Arts, Xiangmu Haoting New Materials Co., Ltd:

Company, Beijing Academy of Science and Technology Urban Safety and Environmental Science Institute, Zhejiang Shenghua Yunfeng New Materials Co., Ltd., Dehua Tubao Bao New Decorative Materials Co., Ltd., AkzoNobel Paint (Shanghai) Co., Ltd., Nippon Paint (China) Co., Ltd., Dow Chemical (China) (China) Investment Co., Ltd., Beixin Paint Co., Ltd., Meichao Group Co., Ltd., Zhongshan City, Guangdong Province Quality Measurement Supervision and Inspection Institute, Guangzhou Group Co., Ltd:

Tai Chemical Co., Ltd., Wanhua Hexiang Group Co., Ltd., Guangzhou Tongxin Sports Co., Ltd., Xingpai Youshiji Building Materials Co., Ltd:

Company, Anhui Jiabaoli Technology Materials Co., Ltd., Baroque Wood Industry (Zhongshan) Co., Ltd., Shuxiangmendi Group Co., Ltd., Weihai Hai Ma Huaneng Carpet Co., Ltd., Yingsheng Energy Saving Group Co., Ltd., Haining Dilong Yongfu New Material Co., Ltd., Shanghai Jianke Inspection Co., Ltd:

Company, Dongguan Shengwei Mechanical and Electrical Equipment Technology Co., Ltd., Suzhou Sushi Guangbo Environmental Reliability Laboratory Co., Ltd., 3Tree Coatings Co., Ltd:

Co., Ltd., Foshan Shunde Badu Industrial Co., Ltd., Shanghai Baolijia New Materials Co., Ltd., Shanghai Baoyuan Ecological Technology Co., Ltd:

Division, Shanghai Fuxuan Environmental Protection Technology Co., Ltd., Shenyang Ziweiheng Testing Equipment Co., Ltd., Suzhou Huati Testing Technology Co., Ltd., Puni Test Test Group Co., Ltd., Wood Industry Research Institute of the Chinese Academy of Forestry Sciences, Dongfang Yuhong Civil Building Materials Co., Ltd., Zhejiang Water Resources Mojiangnan New Material Technology Co., Ltd., Yunnan Kelun Engineering Quality Inspection Co., Ltd., Keshun Waterproof Technology Co., Ltd., Dongguan Environmental Protection Technology Co., Ltd:

Yi Instrument Technology Co., Ltd., Guangdong Richang Furniture Co., Ltd., Beijing Hongyuan Tongda Technology Co., Ltd., Beijing Jinhongfan Trading Co., Ltd:

Company, Changshu Chengxin Building Materials Co., Ltd., China Building Materials Research Institute Co., Ltd., Beijing Weikang Environmental Protection Technology Co., Ltd., Japan Zhaohai Gongyan New Materials Co., Ltd:

The main drafters of this document: Ding Jianjun, Liu Shihua, Pei Yipu, Guo Zhongbao,

Guan Hongyan, Liu Jiemin, Wu Chuandong, Wu Fushe, Han Wei, Xu Danhua, Wang Mingyu, Yuan Qingdan, Ning Zhanwu, Liu Jinhua, Zhang Yanni, Zhao Peng, Zhang Jingjing, Shu Mushui, Sun Yuanyuan, Tian Maohua, Chen Jianfeng, Guo Caixia, Ye Nuogen, Luo Shuxiang, Zhao Jianzhong, Shen Juanxia, Yang Peng, Gu Jianyong, Nan Xuan, Hu Zhongyuan, Liang Zhongwei, Zhou Lei, Lin Changqin, Chen Quan, Wang Xiaoming, Cai Chenmin, Zhou Jianquan, Li Daguang, Lin Deying, Bu Lixin, Wang Mingfang, Zhang Jun, Wei Yuchun, Yuan Jun, Xia Keyu, Degree, Peng Yongsen, Lin Riping, Qian Zhen, Baoli Dao, Zhang Fuji, Xin Guifeng, Liu Teng, Wang Wei, Li Libing, Zou Xianwu, Han Guang, Yao Huizhong, Chen Yanlong, Gong Xingyu, Yao Liang, Wan Changhai, Du Shiyuan, Liu Wei, Cai Hanmei, Zhao Wenyan, Li Man, Li Qiannan, Jia Qi, Liu Zhigang, Li Xuan, Liu Lu, Wu Shengying, Zou Jian, Kang Jing, Chen Junnao, Su Runhua, Wang Jimei, Liu Wenxiu, Wang Zhongyong:

Odor release testing of building materials products Environmental test chamber method

1 Scope

This document specifies the outline of the method for testing the odor release of building materials products using the environmental test chamber method, test equipment and facilities, sample preparation, odor Release and sample collection, odor evaluation panels, odor test methods and test reports:

This document applies to artificial boards and their products, coatings, adhesives, thermal insulation materials and products, flooring materials, wallpaper/wall coverings, and sports ground materials:

Odor release testing of building materials and other building materials products:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

JJF (Building Materials) 182-2021 Calibration Specifications for Environmental Test Chambers for Volatile Testing of Building Materials Products

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 smellodour The sensory characteristics experienced by the olfactory organs when smelling certain volatile substances:

[Source: GB/T 10221-2021,5:18] 3:2 odor sample odour sample Gas samples collected from the environmental test chamber for odor testing: 3:3 odor evaluation panel sensory odour panel A group that tests the odor emitted by building materials products: 3:4 Odor assessor odour assessor A person who conducts odor testing according to prescribed methods:

Note: Depending on the test method, odor evaluators may need to receive appropriate training: 3:5 Odor inspector odour inspector Meet the requirements of an odor evaluator and be responsible for the establishment, training and supervision of the odor evaluation team and manage the group testing activities, but will not participate in specific Personnel involved in body odor assessment: