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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 8624-2012

Replace GB 8624-2006

**Classification for Burning Behavior of
Building Materials and Products**

建筑材料及制品燃烧性能分级

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Administration (SAC) of the People's Republic of China**

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Foreword

In this Standard, Chapter 4, Chapter 5 and Section 6.1 are compulsory, and the others are recommendatory.

This Standard was drafted in accordance with the rules specified in GB/T 1.1-2009.

This Standard replaces "Classification for Burning Behavior of Building Materials and Products" (GB 8624-2006). Compared with GB 8624-2006, this Standard has the following main technical changes except editorial amendments:

- Foreword, Introduction and part of Terms and Definitions are modified, and Symbols and Abbreviations were deleted;
- The division and classification criteria of burning behavior grade were modified (see Chapter 4 and 5 in this edition and Chapter 4, Chapter 10 and Chapter 11 in Edition 2006).
- Burning behavior classification of building products was added (see 5.2);
- Test methods, test principles and test sample preparation, classification test quantity, test of building products (except flooring materials), test of flooring material and application scope of this classification (see Chapters 5, 6, 7, 8,9 and 13 of Edition 2006);
- Identification of burning behavior grade, as well as additional information and identification were modified (see Chapter 6 and Appendix B in this edition and Chapters 4 and 12 in Edition 2006);

Appendix A, Appendix B and Appendix C in the former edition were deleted and new Appendix A, Appendix B and Appendix C were supplemented.

This Standard made reference to "Fire Classification of Construction Products and Building Elements - Part 1: Classification Using Data from Reaction to Fire Tests" (EN 13501-1:2007).

This Standard was proposed by the Ministry of Public Security of the People's Republic of China.

This Standard is under the jurisdiction of the Fireproof Materials Technical Subcommittee of National Technical Committee on Fire Protection of Standardization Administration of China (SAC/TC 13/SC 7).

Drafting organization of this standard: Sichuan Fire Research Institute of Ministry of Public Security

Participating drafting organizations of this Standard: Technical Supervision and Research Center of the Building Materials Industry, China Building Materials Academy, Institute of Fire Prevention of China Academy of Building Research, Research Institute of Wood Industry of Chinese Academy of Forestry, Bayer Materials Science (China) Co., Ltd., Armacell Thermal Insulation Materials (Guangzhou) Co., Ltd, Owens Corning (China) Investment Co., Ltd., Aeroflex International Co., Ltd. Shanghai Armstrong Building Products Co., Ltd., Huamei Group Co., Ltd., Changzhou Jingxue Insulation Technology Co., Ltd., Kingfa Science and Technology Co., Ltd., Wanhua Chemical Group Co.Ltd. , Feininger (Nanjing) Energy Saving Technology Co.,Ltd.

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The previous editions of this Standard are:

- GB 8624-1988, GB 8624-1997 and GB 8624-2006.

Introduction

GB 8824 was issued in 1988 for the first time; Revision GB 8624-1997 was issued after the first revision based on the standard of West Germany "Fire Behavior of Building Materials and Building Components; Building Materials; Concepts, Requirements and Tests" (DIN 4102-1:1981). As Chinese classification criteria for burning behaviors of building material, GB 8624-1997 played an important role in the burning behavior evaluation and grading, fire safety design guidance, firefighting supervision, as well as the implementation of "Code of Design on Building Fire Protection and Prevention" etc.

In 2006, with reference to "Fire Classification of Construction Products and Building Elements: Classification Using Test Data from Reaction to Fire Tests" (En 13501-1:2002) prepared by European Committee for Standardization (CEN), GB 8624 was revised for the second time and Revision GB 8624-2006 was issued. Compared with Edition 1997, relatively great changes occurred to GB 8624-2006 in classification and criteria of the burning behaviors of building materials and products: the burning behavior classification changed from Grades A, B₁, B₂, and B₃ to Grades A1, A2, B, C, D, E and F.

Judged from the implementation of GB 8624-2006, the classification of burning behaviors is too meticulous, which does not match the current reality of engineering construction in China. To enhance the applicability and compatibility, the third revision was made to GB 8624. This Standard still defined the basic classification of burning behaviors of building materials as Grades A, B₁, B₂ and B₃, established the corresponding relationship with the European Standard classification as Grades A1, A2, B, C, D, E and F, and adopted the classification criteria of European standard EN 13501-1:2007.

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1 Scope

This Standard specifies the terms and definitions, burning behavior grades, burning behavior grade criteria, burning behavior grade identification and inspection report of building materials and products.

This Standard is applicable to burning behavior classification and judgment of building materials, decoration materials and products in construction engineering.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the normative document (including any amendments) applies.

GB/T 2406.2 Plastics - Determination of Burning Behavior by Oxygen Index - Part 2: Ambient-temperature Test

GB/T 8408 Plastics - Determination of Burning Characteristics - Horizontal and Vertical Test

GB/T 5169.16 Fire Hazard Testing for Electric and Electronic Products-Part 16: Test Flames-50W Horizontal and Vertical Flame Test Methods

GB/T 6454 Textiles - Burning Behavior - Oxygen Index Method

GB/T 5455 Textiles - Burning Behavior - Vertical Method

GB/T 5464 Non-combustibility Test Method of Building Materials

GB/T 5907 Fundamental Terminology of Fire Protection: Part 1

GB/T 8333 Test Method for Flammability of Rigid Cellular Plastic - Vertical Burning Method

GB/T 8626 Test Method of Flammability for Building Materials

GB/T 8627 Test Method for Density of Smoke from the Burning or Decomposition of



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