

NATIONAL STANDARD  
OF THE PEOPLE'S REPUBLIC OF CHINA  
中华人民共和国国家标准  
Code for Design of Gas Fire Extinguishing Systems  
气体灭火系统设计规范  
GB 50370-2005

Chief Editorial Department: Ministry of Public Security of the People's Republic of China  
Approving Department: Ministry of Construction of the People's Republic of China  
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## NOTICE

This code is written in Chinese and English. The Chinese text shall be taken as the ruling one in the event of any inconsistency between the Chinese text and the English text.

# **Notice of Promulgation for Ministry of Construction of the People's Republic of China**

**No. 412**

**Notice on Promulgation of the national standard “Code for Fire Gas Extinguishing  
Systems” by Ministry of Construction.**

Hence “Code for Fire Gas Extinguishing Systems” has been approved as the national standard with a serial number of GB 50370-2005, which shall come into force upon May 1<sup>st</sup>, 2006. Herein, Clauses 3.1.4, 3.1.5, 3.1.15, 3.1.16, 3.2.7, 3.2.9, 3.3.1, 3.3.7, 3.3.16, 3.4.1, 3.4.3, 3.5.1, 3.5.5, 4.1.3, 4.1.4, 4.1.8, 4.1.10, 5.0.2, 5.0.4, 5.0.8, 6.0.1, 6.0.3, 6.0.4, 6.0.6, 6.0.7, 6.0.8, and 6.0.10 are mandatory clauses, which must be forced strictly.

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**Ministry of Construction of the People's Republic of China**

**March 2, 2006**

## Preface

According to the requirement of “Notice on Promulgation of “Plan for Preparation and Modification of National Standards for Project Construction 2001~2002” Document JB [2002] No.26 the Ministry of Construction of PRC, this Standard is prepared by Tianjin Fire Research Institute of Ministry of Public Security, jointly by other relevant units.

During the preparation, the editorial group carried out thorough and in-depth investigation and research; carefully summarized achievements of scientific research in the researching, production, design and application and the practical experience of the engineering about the gas fire extinguishing systems in our country, referred to the relevant international standards and the ones of developed countries such as America, Japan and Germany, and employed the fundamental experiments and the experimental research on engineering applications. After extensive opinions have been obtained from departments and units of design, scientific research, manufacturing, construction, universities and colleges, and supervision on fire fighting, the Standard is finalized by relevant departments, under the review of experts.

This Standard consists of 6 chapters and 7 appendixes, in which the main contents are: general, terms and symbols, design requirements, system components, operation and control, and safety requirements.

Those clauses in block are mandatory clauses, which must be forced strictly.

The Ministry of Construction will be responsible for the management and explanation on the mandatory clauses. The Ministry of Public Security will be responsible for the specific management. Tianjin Fire Research Institute of Ministry of Public Security will be responsible for the explanation on the detailed technical contents. During the implementation, the users of this Standard are kindly required to summarize experience and collect materials, and send any suggestion or comment in this regard to Tianjin Fire Research Institute of Ministry of Public Security (Address: 110 South Road of Weijin of Nankai District, Tianjin. Post Code: 300381) at any time for reference in future revision.

Chief editorial units, participating editorial units and major drafters of this Standard:

**Chief editorial units:** Tianjin Fire Research Institute of Ministry of Public Security

**Participating editorial units:** National Quality Supervision & Testing Center on Fixed Fire Extinguishing Systems and Fire-Retarding Components  
Beijing Urban Engineering Design & Research Institute  
China Academy of Railway Sciences  
Shenzhen International Safety Technology Co., Ltd.  
China Mobile Communications Corporation  
Shanxi General Fire Brigade of Public Security  
Fire Administration of Shenzhen Public Security Bureau  
Guangdong Shengjie Fire Protection Group  
Zhejiang Lantian Environmental Protection Hi-Tech Co., Ltd.  
Hangzhou New Epoch Fire Protection Science and Technology Co., Ltd.  
Xi'an Jianrui Chemical Industry Co., Ltd.

**Major Drafter:** Dong Jingfei, Xie Delong, Du Lanping, Ma Heng, Liu Lianxi, Li Genjing,  
Song Bo, Xu Chunyuan, Liu Yuehong, Wu Jianxu, Wang Baowei, Wan Xu,  
Li Shenliang, Chang Xin, Wang Yuanrong, Jin Yuguang, Guo Hongbao, Lu Xi

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## **1 General**

**1.0.1** This Standard has been worked out for the purpose of designing gas fire extinguishing systems reasonably, reducing fire damage, and protecting the safety of human body and properties.

**1.0.2** This code applies to the design on total flooding extinguishing systems of hepta-fluoropropane, mixed gas IG541, and condensed fire extinguishing aerosol.

**1.0.3** Design of gas fire extinguishing systems shall comply with the national guiding principles and policies, and be safe, technologically advanced, economic and reasonable.

**1.0.4** Products and components of the system applied according to the design must be in accordance with national standards and regulations.

**1.0.5** Besides complying with this standard, the design of gas fire extinguishing systems shall also comply with other relevant current national standards.

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