

ICS 47.020.20
CCS U23



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

GB/T 14088-2021

Replacing GB/T 14088-1993

Marine halon fire extinguishing system

船用卤代烷灭火系统

Issued on: December 31, 2021

Implemented on: July 1, 2022

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

Table of Contents

Foreword

1 Scope

About this edition

Classification and status

How a Chinese national standard is set out

About this English translation

Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents" drafted: This document replaces GB/T 14088-1993 "Technical Conditions for Marine Haloalkane Fire Extinguishing Systems", compared with GB/T 14088-1993, except In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- Changed normative references (see Chapter 2, Chapter 2 of the:1993 edition);
- Changed the weight formula of halogenated alkane fire extinguishing agent required for the protected space (see Chapter 4 of 5:1:4:4,:1993 edition);
- Delete the relevant content of marine halogenated alkane 1211 (difluoro-chloro-bromomethane) fire extinguishing system (see Chapter 4 of the:1993 edition and Chapter 5);
- Increased the design concentration of fire extinguishing dose required per cubic meter of compartment volume for several types of spaces (see Chapter 4 of 5:1:4:3,:1993 edition);
- Added general requirements for fixed total submersion fire extinguishing systems and semi-fixed total submersion fire extinguishing systems (see 5:1:7, 5:1:8);
- Added part of the test content of the fire extinguishing system (see Chapter 6, Chapter 5 of the:1993 edition);
- Increased nozzle specifications (see Chapter 5): Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents: This document is proposed and managed by the National Marine Machinery Standardization Technical Committee (SAC/TC137): This document is drafted by: China State Shipbuilding Corporation No: 701 Research Institute, China Shipbuilding Industry Comprehensive Technology and Economic Research Institute,

9 Jiangzhong Ship Fire Equipment Co., Ltd., Shanghai Xiaoxiang Fire Equipment Co., Ltd., Fujian Tianguang Fire Co., Ltd., Wuhan University of Technology: The main drafters of this document: Pan Jinping, Sun Meng, Zhou Rong, Shi Lei, Qiu Bo, Li Chunming, Huang Yashu, Liu Anji, Liu Jingxian, Liu Yang, Wu Weihuang: This document was first published as GB/T 14088-1993 in:1993, and this is the first revision: Marine Haloalkane Fire Extinguishing System

1 Scope

GB/T 14088-2021 is the Chinese national standard on marine halon fire extinguishing system, in the field of shipbuilding and marine structures. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 December 2021 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2022. Classification: ICS 47.020.20, CCS U23. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative references

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

GB/T 191 Graphical signs of packaging, storage and transportation GB/T 308:

GB/T 708-2019 Dimensions, shapes, weights and allowable deviations of cold-rolled steel sheets and strips

GB/T 908-2019 Size, shape, weight and allowable deviation of forged steel bars

GB/T 1220-2007 Stainless Steel Rods

GB/T 1226-2017 General pressure gauge

GB/T 1527-2017 Copper and copper alloy drawn pipes

GB/T 2059-2017 Copper and copper alloy strip

GB/T 3077-2015 Alloy Structural Steel

GB/T 3181-2008 Paint Film Color Standard

GB/T 4208-2017 Protection class of enclosure (IP code)

GB/T 5099-2017 (all parts) seamless steel gas cylinders

GB/T 5100-2020 Steel welded gas cylinders

GB 6051 Trifluoromonobromomethane fire extinguishing agent (1301 fire extinguishing agent)

GB/T 8979 Pure nitrogen, high-purity nitrogen and ultra-pure nitrogen

GB/T 10250 Electromagnetic Compatibility of Marine Electrical and Electronic Equipment