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

GB/T 20847.1-2007

Replacing GB/T 20847.1-2007, GB/T 20847.2-2013

**Small craft - Fire protection
(English Translation)**

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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.

This document supersedes GB/T 20847.1-2007 "Fire Protection of Small Boats - Part 1: Boats with a Hull Length Not Greater Than 15m" and GB/T 20847.2-2013 "Fire Protection of Small Boats - Part 2: Boats with a Hull Length Greater Than 15m", is consistent with GB/T 20847.1-2007 and Compared with GB/T 20847.2-2013, apart from structural adjustments and editorial changes, the main technical changes are as follows.

- a) Some terms and their definitions have been added (see Chapter 3);
- b) Requirements for cooking appliances, solid fuel appliances, and heating appliances have been added (see 4.1);
- c) Special requirements have been added for premises equipped with gasoline tanks and portable gasoline engines (see 4.3.2, 4.3.3);
- d) Increased fire safety requirements for deck windows (see 4.7);
- e) Increased requirements for fire detection (see Chapter 5);
- f) Added detailed requirements for access to deck hatches designated as fire escape routes (see 6.2.5);
- g) The fire extinguishing requirements for the engine and engine room have been modified (see 7.4.1, 5.3.4.1 of GB/T 20847.1-2007).
GB/T 20847.2-2013, section 5.3.4.1);
- h) The maximum distance between the portable fire extinguisher and the fire exit has been changed from 2m to 3m (see 7.5.4.1, GB/T 20847.1-2007).
- 6.4 (GB/T 20847.2-2013, 6.4)
- i) Added the requirement for approval of fixed systems, and removed the requirement for asphyxiating extinguishing agents in fixed fire extinguishing systems (see...).

- j) Requirements regarding the toxicity of extinguishing agents and the prohibition of halogenated alkanes have been added (see 7.6.2.3);
- k) Added the requirement to shut down engines and other equipment in the engine room and closeable air dampers before fire suppression (see 7.6.4);
- l) An additional requirement of 100N manual release force has been added for fixed fire extinguishing systems (see 7.6.4.2);
- m) Added requirements for power supply indication of automatic fire suppression systems (see 7.6.4.9);
- n) The "Display Information" has been changed (see Chapter 8, Chapter 8 of GB/T 20847.1-2007, and Chapter 8 of GB/T 20847.2-2013).

This document is equivalent to ISO 9094:2022 "Fire protection for small boats".

The following minimal editorial changes have been made to this document.

---Added "Fire extinguishing rating of fire extinguishers according to GB 4351" (see B.3).

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 and is under the jurisdiction of the National Technical Committee on Standardization of Small Boats (SAC/TC241).

1 Scope

This document specifies methods for fire prevention on small boats, aiming to provide sufficient time for people on board to escape from a fire.

This document applies to fire prevention for all types of small boats with a hull length (LH) not exceeding 24m.

This document does not apply to personal boats.

This document does not include the following.

---GB/T 20894-2025 covers the design of permanently installed liquid fuel cooktops and heating appliances (including components for heat dissipation).

and installation;

---ISO 12133 covers carbon monoxide (CO) detection systems.

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 2406.3-2022 Determination of flammability of plastics by oxygen index method - Part 3: Temperature rise test (ISO 4589-3.

2017, IDT)

GB/T 17726-1999 Electrical installations for small boats - protection against ignition of surrounding flammable gases (ISO 8846:1990, IDT) ISO 7165:2017 Performance and structural requirements for portable fire extinguishers Note. GB/T 19310-2025 Permanently installed fuel systems for small boats (ISO 10088:2022, IDT) ISO 10239:2014 Small boat liquefied petroleum gas (LPG) systems Note. GB/T 18821-2002 Liquefied Petroleum Gas (LPG) Systems for Small Boats (ISO 10239:2000, IDT) GB/T 19312-2025 Ventilation of gasoline engine and/or gasoline tank compartments in small boats (ISO 11105:2020, IDT) ISO 12216 Requirements for strength and sealing of windows, portholes, hatch covers, storm covers and doors of small craft Note. GB/T 19919-2025 Requirements for strength and sealing of small boat windows, portholes, hatch covers, storm covers and doors (ISO 12216:2020, IDT) ISO 13297 Smallcraft - Electrical Systems - Alternating Current and DC Power Supply Note. GB/T 18814-2024 AC and DC devices for electrical systems of small boats (ISO 13297:2020, IDT) GB/T 20894-2025 Small boat liquid fuel cooking stoves and heating appliances (ISO 14895:2016, IDT) Note. GB/T 40884-2021 Electric Propulsion Systems for Small Boats (ISO 16315:2016, IDT) and diesel fuel tanks) Note. GB/T 30498-2014 Permanently installed gasoline and diesel fuel tanks for small boats (ISO 21487:2006, IDT) 507. Smalvessels)