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

GB/T 19310-2025

Replacing GB/T 19310-2003

Small craft - Permanently installed fuel systems

小艇 永久性安装的燃油系统

(English Translation)

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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 for standardization documents" Drafting is required.

This document replaces GB/T 19310-2003 "Permanently installed fuel systems and fixed fuel tanks for small boats". Compared with GB/T 19310-2003, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Added relevant terms and their meanings (see 3.11 to 3.21);
- b) Some design requirements and test methods have been changed (see 4.1, 4.2, 5.2, 5.3, and 4.1, 4.2, 6.2, and 6.3 of the 2003 edition);
- c) Deleted the content related to fuel tanks (see Chapter 5, Appendix B and Appendix C of the 2003 edition);
- d) Fire resistance test has been added (see Appendix C).

This document is equivalent to ISO 10088:2022 "Permanently installed fuel oil systems for small craft".

1 Scope

This document specifies requirements for the design, materials, construction, installation, and testing of permanently installed fuel systems for internal combustion engines.

This document applies to permanently installed diesel and gasoline systems, as well as fuel fill ports, on inboard and outboard motor powered boats. All parts connected to the propulsion or auxiliary engines.

The design and testing requirements for gasoline and diesel fuel tanks permanently installed on small craft for internal combustion engines are detailed in ISO 21487:2022.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents with a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

GB/T 17726-1999 Protection of small boat electrical installations against ignition of surrounding flammable gases (ISO 8846:1990, IDT)

GB/T 18814-2024 Small craft electrical systems - AC and DC installations (ISO 13297:2020, IDT)

ISO 1817:2024 Rubber, vulcanized or thermoplastic

Note: GB/T 1690-2010 Test method for resistance of vulcanized rubber or thermoplastic rubber to liquids (ISO 1817:2005, MOD)

ISO 7840:2021 Small craft - fire-resistant fuel hoses

Note: GB/T 14652.1-2009 Small boat fire-resistant fuel hose (ISO 7840:2004, IDT)

ISO 8469:2021 Small craft - Non-fire-resistant fuel hoses

Note: GB/T 14652.2-2009 Small boat non-fire resistant fuel hose (ISO 8469:2006, IDT)

ISO 11105:2020 Small craft - Ventilation of petrol engine and/or petrol tank compartments

Note: GB/T 19312-2003 Ventilation of small boat gasoline engine and/or gasoline tank compartments (ISO 11105:1997, IDT)

ISO 11192:2005 Small craft - Graphical symbols

Note: GB/T 19918-2005 Graphical symbols for small craft (ISO/DIS 11192:2000, IDT)

ISO 21487:2022 Small craft - Permanently installed petrol and diesel fuel tanks

Note: GB/T 30498-2014 Permanently installed gasoline and diesel fuel tanks for small craft (ISO 21487:2006, IDT)

IEC 60068-2-52 Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Accessible

The ability to access the boat for inspection, removal or maintenance without dismantling the boat's permanent structure.

NOTE: A hatch cover is not considered a permanent structure on board the boat even if a tool such as a wrench or screwdriver is required to open it. If fuel tank accessories can be inspected and maintained through other openings, then the hatch used for inspecting or maintaining the fuel tank may be covered with a whole cover.