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

GB/T 14652-1993

Replacing GB/T 14652.1-2009

**Small craft - Fire-resistant fuel hoses
(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 is Part 1 of GB/T 14652 "Small Boats". GB/T 14652 has the following parts published.

---Part 1: Refractory Fuel Hose;

---Part 2: Non-fire-resistant fuel hoses.

This document replaces GB/T 14652.1-2009 "Fire-resistant Fuel Hose for Small Boats". Compared with GB/T 14652.1-2009, the only differences are in the structural design.

Aside from integration and editorial changes, the main technical changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2009 edition);
- c) The content of "General Requirements" has been changed (see Chapter 4, Chapter 3 of the 2009 edition);
- d) The requirement for "test liquid" has been added (see 6.2);
- e) The requirements for the "burst pressure test" have been changed (see 6.3, 5.1 in the 2009 edition);
- f) The requirements for "vacuum testing" have been changed (see 6.4, 5.2 of the 2009 edition);
- g) The requirements for the "Volume Change Test in Test Liquid" have been changed (see 6.5, 5.3 of the 2009 edition);
- h) The requirements for the "Test for Mass Loss of Test Tubes" have been changed (see 6.6, 5.4 of the 2009 edition);
- i) The requirements for the "Fuel Penetration Test" have been changed (see 6.9, 5.7 of the

2009 edition);

j) The requirements for the "cold bending test" have been changed (see 6.10, 5.8 of the 2009 edition);

k) The requirements for the "wear test" have been changed (see 6.11, 5.9 of the 2009 edition);

l) The requirements for the "dry heat resistance test" have been changed (see 6.12, 5.10 in the 2009 edition);

m) The requirements for the "oil resistance test" have been changed (see 6.13, 5.11 in the 2009 edition);

n) The requirements for the "Adhesion Test" have been changed (see 6.14, 5.12 of the 2009 edition);

o) The requirements for "marking" have been changed (see Chapter 7, Chapter 6 in the 2009 edition);

p) The requirements for "Preparation" in the fire resistance test have been changed (see A.4.1, A.4.1, 2009 edition);

q) The requirements for "test" in fire resistance testing have been changed (see A.4.2, A.4.2 of the 2009 edition);

r) The content of the "Basic Requirements" for the fuel permeation test has been revised (see B.1, 2009 edition of B.1);

s) The requirements for "sampling" in the fuel permeability test have been changed (see B.2, B.2 of 2009).

t) The requirements for "equipment" in the fuel permeability test have been changed (see B.3, B.3, 2009 edition);

u) The requirements for the "Test Procedure" for the fuel permeation test have been changed (see B.4, B.4 of 2009).

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

---ISO 7840:2021 references ISO 1402:2009, ISO 1817:2015, ISO 7233:2016 and ISO 10088:2013 Obsolete, and superseded by the latest versions ISO 1402:2021, ISO 1817:2024, ISO 7233:2021 and ISO 10088:2022 respectively.

There are no technical differences in the relevant content referenced in the old and new versions; therefore, this document uses the latest version.

---In ISO 7840:2021, B.4 and B.1 are inconsistent regarding the test placement temperature and number of days; B.4 was not updated in sync with B.1.

Update. This document has been updated to align the relevant content in B.4 with that in B.1.

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).

Introduction

Fuel hoses are a key component of the boat's permanently fixed fuel system; their quality and performance directly affect the boat's navigation safety and environmental impact.

Environmental safety. GB/T 14652 "Small Boats" specifies the general requirements and physical test methods for fuel hoses, thereby guiding the production and application of fuel hoses.

Inspection. GB/T 14652 "Small Boats" consists of the following two parts based on the fire resistance characteristics of fuel hoses.

---Part 1: Fire-resistant fuel hoses. The purpose is to provide general requirements and physical testing methods for fire-resistant fuel hoses used in small boats.

method.

Small boat fire-resistant fuel hose

1 Scope

This document specifies the durability of small boats used for transporting gasoline, ethanol-blended gasoline, diesel, and fatty acid methyl ester (FAME)-blended diesel.

General requirements and physical test methods for flammable and fuel oil hoses, applicable to hoses with an inner diameter not exceeding 10 mm and a design working pressure not exceeding 0.34 MPa.

Hose, and hoses with an inner diameter not exceeding 63mm and a design working pressure not exceeding 0.25MPa.

This document applies to hoses with permanently fixed fuel systems inside small boats, but not to hoses that are entirely located inside the stern well and directly connected to the outboard motor.

Connect the hose.

Technical requirements for non-fire-resistant fuel hoses are specified in GB/T 14652.2-2026. Technical requirements for permanently installed fuel systems are specified

in [reference needed].

ISO 10088:2022.

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.

hoseassemblies-Hydrostatictesting) Note. There are no technical differences between the content referenced in ISO 1402:2021 and the content referenced in ISO 1402:2009.

GB/T 5563-2025 Hydrostatic tests on rubber and plastic hoses and hose assemblies (ISO 1402:2021, IDT) ISO 1817:2024 Test methods for resistance to liquids in vulcanized or thermoplastic rubber.

Note: There are no technical differences between the content referenced in ISO 1817:2024 and the content referenced in ISO 1817:2015.

Note: There are no technical differences between the content referenced in ISO 7233:2021 and the content referenced in ISO 7233:2016.

GB/T 5567-2013 Determination of vacuum resistance of rubber and plastic hoses and hose assemblies (ISO 7233:2006, IDT) Note. GB/T 24134-2009 Evaluation of ozone resistance under static conditions for rubber and plastic hoses (ISO 7326:2006, IDT) tems) Note. There are no technical differences between the content referenced in ISO 10088:2022 and the content referenced in ISO 10088:2013.

GB/T 19310-2025 Permanently installed fuel systems for small boats (ISO 10088:2022, IDT) EN14214:2012 A2.2019 Requirements and tests for fatty acid methyl esters (FAME) used in diesel engines and for heating liquid petroleum products.