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

GB/T 41891.2-2022

**Ships and marine technology - Inflatable buoyancy support
system against flooding of ships - Part 2: Buoyancy chamber**

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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 of Standardization Documents"

drafted.

This document is part 2 of GB/T 41891 "Inflatable buoyancy support systems for flood protection of ships and marine technical ships".

GB/T 41891 has released the following parts.

--- Part 1. Air supply system;

--- Part 2. Floating tank.

This document is equivalent to ISO 23121-2:2019 "Inflatable buoyancy support systems for flood protection of ships and marine technology ships No. 2"

Section. Floating Box."

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 41891 "Inflatable buoyancy support system for water immersion protection of ships and offshore technical ships" will regulate the inflatable buoyancy support system for ships' water immersion protection

Product performance and inspection methods of buoyancy support systems, providing technical basis for the use and inspection of inflatable buoyancy support systems for ship immersion protection

It consists of the following two parts.

--- Part 1. Air supply system. It can be used for installation, commissioning and inspection of gas supply system.

--- Part 2.Floating tank. It can be used for the design, manufacture and inspection of floating tank products.

Ships and marine technology ships for protection against water immersion

Inflatable Buoyancy Support Systems Part 2.Floating Tanks

1 Scope

This document specifies the material requirements and test methods for the buoyancy tank of the inflatable buoyancy support system used in the protection of ships against flooding. The buoyancy support system can

Sufficient to be installed in the engine room and/or cargo hold to provide additional buoyancy for damaged ships to prevent sinking or capsizing.

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 24133-2009 Standard environment for conditioning and testing of rubber or plastic coated fabrics (ISO 2231.1989, IDT)

semblies-Hydrostatic testing)

Note. GB/T 5563-2013 Hydrostatic test method for rubber and plastic hoses and hose assemblies (ISO 1402.2009, IDT)

ISO 1419.2019 Accelerated weathering test for rubber or plastics-coated fabrics (Rubber-orplastics-coatedfabrics-Accel-

erated-ageing tests)

Note. GB/T 24135-2009 Accelerated aging test of rubber or plastic coated fabrics (ISO 1419.1995, IDT)

ISO 1421.2016 Determination of the bursting strength of rubber or plastics-coated fabrics (Rubber-orplastics-coatedfabrics-De-

ISO 2411 Rubber-orplastics-coatedfabrics-Determination

ISO 4674-1.2016 Determination of tear properties of rubber or plastic coated fabrics - Part 1.Constant speed tearing method (Rubber-

ISO 4675 Rubber-orplastics-coated fabrics-Low-temperaturebendtest)

Note. GB/T 18426-2021 Low temperature bending test of rubber or plastic coated fabrics (ISO 4675.2017, IDT)

ISO 5978 Rubber-orplastics-coated fabrics-Determinespraytests)

Note. GB/T 10125-2021 Artificial Atmosphere Corrosion Test Salt Spray Test (ISO 9227.2017, MOD)

trials)

Note. GB/T 34315.3-2017 Small craft inflatable liferafts - Part 3.Materials (ISO 9650-3.2009, IDT)

IMOMSC81(70) International Maritime Organization Maritime Safety Council Resolution 81(70)..1998, Amendments to Testing of Life-Saving Appliances