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

GB/T 42329.1-2023

**Ships and marine technology - Inflatable buoyancy support
system against flooding of ships - Part 1: Gas supply system**

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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.

This document is Part 1 of GB/T 42329 "Aerated buoyancy support systems for water immersion protection of ships and offshore technical vessels".

GB/T 42329 has issued the following parts.

--- Part 1. Gas supply system;

--- Part 2. Floating tank.

This document is equivalent to ISO 23121-1:2019 "Inflatable buoyancy support system for water immersion protection of ships and offshore technical ships"

Part 1. Air Supply Systems".

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

Introduction

GB/T 42329 "Inflatable Buoyancy Support System for Ships and Offshore Technical Ships Immersion Protection" will regulate the inflatable buoyancy support system for ships 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. Gas supply system. It can be used for installation, commissioning and inspection

of gas supply system.

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

Ships and Offshore Technology

Inflatable buoyancy support system for marine immersion protection

Part 1. Air supply system

1 Scope

This document specifies the general requirements, installation and start-up requirements for the air supply system of the inflatable buoyancy support system used for ship immersion protection.

Support systems provide additional buoyancy to damaged vessels and can be installed in the engine room and/or cargo hold.

This document ensures the functionality of air supply systems that use a gaseous medium (eg inert gas) to inflate buoyancy tanks of buoyancy support systems.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

ISO 7010 Graphical symbols safety colors and safety signs registered safety signs (Graphical symbols-Safety colours)

Note. GB/T 31523.1-2015 Safety Information Identification System Part 1. Signs (ISO 7010:2011, MOD)

Note. GB/T 23298-2009 Inflatable systems for ships and marine technology inflatable life-saving appliances (ISO 15738:2002, IDT)

IMOSOLAS, International Maritime Organization International Convention for the Safety of Life at Sea II-2A Chapter 4 Fixed Fire Extinguishing System (Fixed fire)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Composed of an air supply system (3.4) and an inflatable buoyancy tank, it is a system for protecting ships from flooding.

3.2

inert gas asphyxiant

Any medium capable of diluting or displacing oxygen in the air and causing asphyxiation if inhaled.

3.3

toxic gas

Medium which may be toxic or harmful if inhaled.

3.4

gas supply system

A floatation tank inflation system including pipes, valves, nozzles and other components.