

ICS 47.020.01

CCS U 04



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

GB/T 7727.5-2017

General terminology for ships -- Part 5: Ship environment

Issued on: October 14, 2017

Implemented on: May 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

Table of Contents

Foreword

1 Scope

2 general environment

Foreword

GB/T 7727 "ship common terminology" is divided into five parts.

--- Part 1. Synthesis;

--- Part 2. Overall design;

--- Part 3. Performance;

--- Part 4. Hull structure, strength and vibration;

--- Part 5. Ship environment.

This section GB/T 7727 Part 5.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 7727.5-1991 "ship general term ship environment." Compared with GB/T 7727.5-1991, the main

Technical changes are as follows.

--- General environmental terms to increase the "induced environment" "ship electromagnetic interference" "ship electromagnetic compatibility" and other terms (see 2.1, 2.20, 2.21);

--- Added "Free Air Condition", "Condensation Environment of Ships", "Absorption Environment of Ships", "Absorption Environment of Ships" in terms of climate and environment

Ship proliferation environment "" ship breathing environment "" oil mist content "" salt spray content "" salt spray settlement rate "and other terms (see 3.2, 3.7, 3.8,

3.10, 3.11, 3.21, 3.23, 3.24);

--- Mechanical environment terms added "ship vibration" "ship tilt" "ship sway" "mechanical stress" and other terms (see 4.5, 4.7,

4.8, 4.9);

--- Modify the "Marine Environmental Factors" "Chemical active material environment of ships" "Mechanical environment of ships" "Material environment of mechanical effects of ships"

"Marine environmental parameters" "Climate stress" "Ships damage" and other terms (see 2.3,2.7,2.8,2.9,2.10,3.14,4.3).

This part is proposed by China State Shipbuilding Corporation.

This part of the Standardization Technical Committee by the National Marine Standard Technical Committee (SAC/TC12/SC3) centralized.

This part of the drafting unit. China Shipbuilding Industry Corporation 740th Institute.

The drafters of this section.

This section was first released in 1991, this is the first revision.

General terms for ships

Part 5. Marine environment

1 Scope

GB/T 7727 This section defines the ship's general environment, climate, mechanical environment terms and definitions.

This section applies to the shipbuilding industry research, design, production, teaching, use, management and other areas can be applied.

2 general environment

2.1

Ship environment shipenvironment

The natural and induced environment existing inside and around ships.

2.2

Induce environmental inducedenvironment

Mainly by man-made or equipment operation caused by a local environmental conditions, or by natural forcing on the device itself physical, chemical

Internal characteristics caused by the comprehensive conditions.

2.3

Marine environmental factors shipenvironmentfactor

Constitute the overall environment of the ship's various independent, of different nature and

subject to the basic law of evolution of the basic components. By the natural environment factors

And inducing environmental factors that make up natural environmental factors such as air temperature, relative humidity, solar radiation, wind, rain, chemically active substances, organisms and microorganisms

Objects, etc., to induce environmental factors such as impact, vibration, Britain, tilt and swing and so on.

2.4

Ships environmental conditions shipenvironmentalcondition

The physical, chemical and biological conditions that the ship is exposed to. Usually in accordance with the habit of sub-climatic environmental conditions, mechanical environmental conditions and electricity

Magnetic environment conditions.

2.5

Ship climate environment shipclimaticenvironment

Ships and their equipment may withstand the effects of various climatic conditions.

2.6

Ship biological environment shipbiogenicenvironment

Ships and their equipment may be exposed to marine organisms, microorganisms and other organisms that affect the environment.

2.7

Ships chemical active material environment
shipenvironmentfromchemicalyactivesubstances

Ships and their equipment may withstand the effects of oil mist, salt spray, oxygen, acids, sulfur dioxide and other substances in the environment.

2.8

Ship machinery environment shipmechanicalenvironment

Skewed, swaying, vibrating, impacting, and top-bouncing due to shipping attitude and equipment operating conditions and other factors.

2.9

The physical environment in which ship machinery functions
shipenvironmentfrommechanicalyactivesubstances

Mechanical active substances

Ships and their equipment may withstand the impact of dust and other landings.

chinastandards.org - PREVIEW