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

GB/T 36148.1-2018

**Ships and marine technology -- Marine environment protection
-- Oil booms -- Part 1: Design requirements**

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Foreword

GB/T 36148 "Marine and marine technology marine environmental protection boom" is divided into the following four parts.

- Part 1. Design requirements;
- Part 2. Strength and performance requirements;
- Part 3. End connectors;
- Part 4. Auxiliary equipment.

This part is the first part of GB/T 36148.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This section uses the translation method equivalent to ISO 17325-1:2014 "Marine and marine technology marine environmental protection booms 1

Part. Design Requirements.

The documents of our country that have a consistent correspondence with the international documents referenced in this part are as follows.

- GB/T 36148.2-2018 Marine and marine technology - Marine environmental protection - Part 2. Strength and performance

Seeking (ISO 17325-2:2014, IDT).

This section has made the following editorial changes.

- In Chapter 6, modify the editorial error "Appendix 1" to "Appendix A";
- 9.2d), replace "ISO " in the product mark with "GB/T 36148";
- Appendix A, increased the unit conversion content. the calculation formula of water resistance and wind resistance according to the Chinese legal unit of measurement Conversion, change "98.2" to "98.242", making the results more accurate, and retaining the

calculation formula in the original international standard, and will

Symbols A, I, V increase the corresponding subscripts c, w according to water resistance and wind resistance;

---A.2, the "below the water surface" in the description of the projection area A_w of the boom is corrected to "above the water surface".

This part is proposed and managed by the National Marine Machinery Standardization Technical Committee (SAC/TC137).

This section drafted by. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute.

1 Scope

This part of GB/T 36148 specifies the basic design requirements, general functions, markings and signs of the boom, and specifies the manufacturer to

Less information on the design, dimensions and materials of the boom.

The purpose of this section is to provide assistance to manufacturers from technical criteria and to provide guidance for users to select the boom. This section does not

It involves safety precautions related to the use of the boom and there is no clear operating procedure for the boom. Users of this section are responsible for making appropriate

Safety and health practices, and the scope of application of relevant regulations.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 21478-2016 Ship and marine technology terminology related to marine environmental protection oil spill treatment (ISO 16165.2013,

IDT)

Marine and marine technology - Marine environmental protection - Part 2. Strength and performance requirements (Shipsand

marinetechnology-Marineenvironmentprotection-Oilbooms-Part 2.Strengthandperformance Requirements)

ASTMF1093 Standard Test Method for Tensile Strength Performance of Oil Spill Response

Boundary (Standard test method for
Tensile strength characteristics of oil spill response booms)

3 Terms and definitions

The following terms and definitions defined in GB/T 21478-2016 and ASTM F1093 apply to this document.

3.1

End connector end connector

A device used to interconnect between the boom sections or between the boom section and the attachment.

3.2

Total buoyancy gross buoyancy

The entire boom section is completely submerged in the weight of the water discharged from the water.

3.3

Oil fence oil containment boom

A floating barrier that controls the movement of floating objects.

Note. English name can be replaced by "boom", see GB/T 21478-2016.

3.4

The minimum vertical depth of the boom below the waterline under working conditions.