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

**GB/T 42686-2023**

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**Ships and marine technology - Marine environment protection -  
Specifications on design and selection of sorbents**

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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 equivalent to ISO :20053:2017 "Code for Design and Selection of Sorbent for Marine Environmental Protection of Ships and Offshore Technology":

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

### 1 Scope

This document specifies the sorbent material and type, selection criteria, product information and signs that the manufacturer should provide:

This document serves as a technical guideline to guide manufacturers and users in the selection of sorbents: This document does not address sorbents or

All safety precautions related to the use of sorbents, and no sorbent operating procedures are involved:

### 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:

Note: GB/T 21478-2016 Ship and Offshore Technology Marine Environmental Protection Oil

## Spill Treatment Related Terms (ISO 16165:2013, IDT)

### 3 Terms and Definitions

The terms and definitions defined in ISO 16165 and the following apply to this document:

3:1

Absorbent

A substance that absorbs liquid and keeps it distributed throughout its molecular structure:

3:2

Adsorbent

A substance that adsorbs liquids to a surface through surface pores and capillaries:

3:3

hydrophobic

A coating on the surface of a material or substance that has a water-repellent function:

3:4

oleophilic

A surface coating of a material or substance with oil-absorbing properties:

3:5

adsorption capacity

The ability of a product to hold absorbed and/or absorbed oil:

Note: The adsorption capacity is expressed as the weight of oil contained in the product per unit weight: