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

GB/T 17436-2025

Replacing GB/T 17436-1998

**Selection of explosion proof electrical equipment in ship
hazardous areas**

船舶危险区域防爆电气设备的选用

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Equipment protected by intrinsic safety type "i"
 - 4.1 Explosion-proof electrical equipment
 - 4.2 Dangerous areas on ships
 - 4.3 Electrical equipment in hazardous areas of ships
 - 4.4 Selection of electrical equipment in hazardous areas of ships
- 5 Equipment protected by a pressurized enclosure "p"
 - 5.1 Tanker Types
 - 5.2 Power distribution system
 - 5.3 Power supply and distribution equipment
 - 5.4 Cables and their laying
 - 5.5 Removable Devices
 - 5.6 Mechanical ventilation of enclosed or semi-enclosed spaces containing hazardous sources
 - 5.7 Electrical protection
 - 5.8 Hull current
- 6 Special provisions for Category A tankers
- 7 Special provisions for Category B tankers
- 8 Equipment protected by type "n"
- 9 Equipment protected by encapsulation type "m"
- 10 Additional requirements for ships carrying motor vehicles
 - 10.1 Hazardous areas
 - 10.2 Electrical equipment in hazardous areas
- 11 Additional requirements for coal carriers
 - 11.1 Self-unloading coal ship
- 14 Classification of locations Explosive gas atmospheres
- 15 Specification for design, selection and installation of electrical equipment

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 replaces GB/T 17436-1998 "Selection of explosion-proof electrical equipment in hazardous areas of ships" and is consistent with GB/T 17436-1998. In addition to structural adjustments and editorial changes, the main technical changes are as follows:

a) Added the classification of explosion-proof electrical equipment types (see 4.1.1.1);

b) Added the principle of three-zone division of ship dangerous areas (see 4.2.3);

c) Added positive pressure ("p") electrical equipment (see 4.3.1,

10.2.2 and B.5 of Appendix B);

d) The selection requirements for explosion-proof electrical equipment based on the principle of three-zone division of dangerous areas of ships have been changed (see 4.4, 4.4 of the 1998 edition);

e) The selection requirements for explosion-proof electrical equipment of liquid cargo ships according to the principle of three-zone division of ship hazardous areas have been changed (see Chapter 6, Chapter 7, Chapter 8, Chapter 9, Chapter 6, Chapter 7, Chapter 8, Chapter 9 of the 1998 edition). Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the National Technical Committee for Standardization of Marine Electrical and Electronic Equipment (SAC/TC531). This document was drafted by: China Shipbuilding Industry Corporation Limited 708 Research Institute, China Shipbuilding Industry Corporation Limited 704 Research Institute, Jiangsu Yangzi Xinfu Shipbuilding Co., Ltd., Harbin Engineering University, Hefei Guoxuan High-tech Power Energy Co., Ltd., Shanghai Aviation Electric Co., Ltd. company. The main drafters of this document are: Du Rui, Chen Tao, Wang Yuhang, Zhou Yilong, Zhao Baoxiang, Zhili, Liu Yuan, Chen Junjie, Ji Hongfei, Si Nan, Liu Hongda, Li Shiming, Tian Ximin, Jin Li, Shi Junqi, Deng Rixi, Liao Wang, Yuan Haitong, Li Liuyang, Gao Xin, Wang Dong, and Li Jiajie. The previous versions of this document and the documents it replaces are as follows:

---First published in 1998 as GB/T 17436-1998;

---This is the first revision. Selection of explosion-proof electrical equipment in hazardous areas of ships

1 Scope

GB/T 17436-2025 is the Chinese national standard on selection of explosion proof electrical equipment in ship hazardous areas, in the field of shipbuilding and marine

structures. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 25 April 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2025. Classification: ICS 47.020.60, CCS U60. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification of hazardous areas of marine vessels and the selection and special requirements for explosion-proof electrical equipment. This document applies to A, B, C, D class tankers, ships carrying motor vehicles and coal carriers. For reference only on ships.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 3836.1-2021 Explosive atmospheres Part

3 Terms and definitions

The following terms and definitions apply to this document.

4 Equipment protected by intrinsic safety type "i"

GB/T 3836.5-2021 Explosive atmospheres Part

5 Equipment protected by a pressurized enclosure "p"

GB/T 3836.8-2021 Explosive atmospheres Part

8 Equipment protected by type "n"

GB/T 3836.9-2021 Explosive atmospheres Part

9 Equipment protected by encapsulation type "m"

GB 3836.14-2014 Explosive atmospheres Part

14 Classification of locations Explosive gas atmospheres

GB 3836.15-2024 Explosive atmospheres Part

15 Specification for design, selection and installation of electrical equipment

GB/T 4208-2017 Enclosure protection degree (IP code)

GB/T 4942-2021 Degree of protection of rotating electrical machines as a whole (IP code) Classification

GB/T 22189-2008 Marine electrical equipment special issue - Tankers ships-Part.201.Systemdesign-General) ships-Part 202: Systemdesign-Protection)