

ICS 47.020.50
CCS U 23



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

GB/T 34602-2017

**Ships and marine technology -- Lifesaving and fire protection --
Atmospheric oil mist detectors for ships**

船舶与海上技术 救生与消防 船舶油雾探测器

(English Translation)

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**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method identical with ISO 16437:2012 "ship and marine life-saving and fire-fighting oil mist detectors." the documents of our country that are consistent with the corresponding international documents that are normative references in this standard are as follows.

--- GB/T 2421.1-2008 Electrical and Electronic Products Environmental Testing Overview and Guidelines (IEC 60068-1:1988, IDT)

--- GB/T 2423.1-2008 Environmental testing for electric and electronic products Part 2. Test methods Test A. Low temperature (IEC 60068-2-1:2007, IDT)

--- GB/T 2423.2-2008 Environmental testing for electric and electronic products Part 2. Test methods Test B. High temperature (IEC 60068-2-2:2007, IDT)

--- GB/T 2423.4-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Db. Alternating hot and humid (12h 12h cycle) (IEC 60068-2-30:2005, IDT)

--- GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) (IEC 60068-2-6:1995, IDT) Electromagnetic compatibility test and measurement techniques Electrostatic discharge immunity test (IEC 61000-4-2).

2001, IDT)

--- GB/T 17626.4-2008 Electromagnetic compatibility test and measurement techniques Fast transient impulse group immunity test (IEC 61000-4-4:2004, IDT)

--- GB/T 17626.5-2008 Electromagnetic compatibility test and measurement techniques surge (impact) immunity test (IEC 61000-4-5:2005, IDT)

--- GB/T 17626.6-2008 electromagnetic compatibility test and measurement techniques RF field induced conduction disturbances immunity (IEC 61000-4-6:2006, IDT) this standard proposed by China State Shipbuilding Corporation.

This standard by the National Marine Machinery Standardization Technical Committee (SAC/TC137) centralized.

This standard was drafted unit. China Shipbuilding Industry and Technology Institute of Integrated Technology, Fujian Tianguang Fire Co., Ltd., but Beijing Thai safety equipment Co., Ltd., Guangzhou Yonghong Fire Equipment Co., Ltd., Jianyang Baoxing Power Machinery Co., Ltd., Xi'an Rio Tinto Fire Technology Co., Ltd., Zhoushan City of Quality and Technical Supervision, Inspection and Research Institute, Weichai Heavy Machinery Co., Ltd.

1 Scope

This standard specifies the performance requirements, test methods and indicators required for oil mist detectors for marine fire alarm systems. This standard Fixed oil mist detectors are mainly installed in hydraulic oil, fuel and lubricating oil systems and other premises may cause flammable liquid leaks.

This standard applies to the ship point, inhalation, open or beam oil mist detector design, manufacture and testing, based on other working principles the oil mist detector can be used for reference. This standard does not apply to specific hazards and explosive environment special detectors.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 7240-2 fire detection alarm system Part 2. Control and indicating equipment (Firedetectionandalarmsystems-Part 2: Controlandindicatingequipment) ISO 7240-4 fire detection alarm system Part 4. Energy supply equipment (Firedetectionandalarmsystems-Part 4: Powersupplyequipment) IEC 60068-1 Environmental testing for electric and electronic products Part 1. Overview and guidance (Environmentaltesting - Part 1.

General and guidance)

IEC 60068-2-1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Low temperature (Environmental testing-Part 2-1.Tests-TestA.Cold) IEC 60068-2-2 Environmental testing for electric and electronic products Part 2. Test methods Test B. High temperature (Environmental testing-Part 2-2.Tests-TestB.Dryheat) IEC 60068-2-6 Environmental testing for electric and electronic products Part 2. Test methods Test Fc. Vibration (sinusoidal) [Environmental testing-Part 2-6.Tests-TestFc.Vibration (sinusoidal)] IEC 60068-2-30 Environmental testing for electric and electronic products Part 2. Test methods Test Db. Alternating hot and humid (12h 12h Cycle) [Environmental testing-Part 2-30.Tests-TestDb.Dampheat, cyclic (12h 12h cycle)] IEC 61000-4-2 Electromagnetic compatibility test and measurement techniques Electrostatic discharge immunity test compatibility (EMC) -Part 4-2.Testing and measuring techniques-Electrostatic discharge immunity test) IEC 61000-4-4 Electromagnetic compatibility test and measurement techniques Electrical fast transient burst immunity test [Electromagnetic compatibility (EMC) -Part 4-4.Testing and measurement techniques -Electric fast transient/burst immunity test] IEC 61000-4-5 Electromagnetic compatibility Test and Measurement Technique Surge (Shock) Immunity Test [Electromagnetic compatibility (EMC) -Part 4-5.Testing and measurement techniques-Surge immunity test] IEC 61000-4-6 Electromagnetic compatibility Testing and measurement techniques Immunity to conducted disturbances induced by radio-frequency fields [Electromagnetic compatibility (EMC) -Part 4-6.Testing and measuring techniques-Immunity to conducted disturbances, induced by radio-frequency fields] EN50086-1:1994 Conduit system electrical equipment provisions Part 1. General requirements (Specification for conduit