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

GB 4302-2008

Replacing GB 4302-1984

Life buoy

救生圈

(English Translation)

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Foreword

The standard 3.2 and Chapter 4, are mandatory, the rest are recommended.

This standard is based on the IMO SOLAS Convention (1974) and the 1978 Protocol and relevant amendments to the LSA (LSA) rule, MSC resolution MSC. 81 (70) life-saving equipment testing and MSC. 200 (80) life-saving equipment testing amendment, MSC. 201 (81) amendments to SOLAS, MSC. 207 (81) the relevant requirements of the LSA Code amendments subject to revisions.

This standard replaces GB 4302-1984 "life preserver." this standard compared with GB 4302-1984, mainly for the following changes.

- Canceled wrapper lifebuoy relevant content;
- A new classification of the type of life buoy;
- Canceled lifebuoy materials physical chemistry performance indicators;
- Increasing the life preserver and attachments appearance, size, weight, materials and function test, and temperature cycling tests and drop tests conducted the modification;
- Increased inspection rules, given the type test and factory inspection items, requirements and test methods for the table;
- Cancel the closed cell foam test method used lifebuoy.

The standard proposed by China State Shipbuilding Corporation.

This standard by the National Standardization Technical Committee loaded ship outfitting.

This standard was drafted. Wuxi Xingtai ship equipment Ltd., Technical and Economic Research Institute of China Shipbuilding Industry.

1 Scope

This standard specifies the classification and marine life buoy marking, requirements, test methods, inspection rules, marking, packaging and storage.

This standard applies to all types of ships and offshore installations by personnel lifebuoy design, manufacture and acceptance.

2 Terms and definitions

The following terms and definitions apply to this standard.

Using a ring body overall molding process buoy.

Using ring body shell integral molding, manufacturing process lifebuoy internal filling

material.

3.1 Classification

Lifebuoy by the manufacturing process is divided into.

- a) A type --- integral lifebuoys;
- b) Type B --- inner shell-filled life preserver.

3.2 Structure type

Lifebuoy structure type shown in Figure 1.

- 1 --- body;
- 2 --- grabline;
- 3 --- reflective tape.

Structure type Figure 1 lifebuoy

3.3 Tag example

Integral lifebuoy mark.

Lifebuoy GB 4302-2007 A Housing-filled life preserver marked.

Lifebuoy GB 4302-2007 B

4.1 Appearance

4.1.1

Lifebuoy skin color should be orange-red, and no color.

4.1.2

Lifebuoy surface should be no bump, no cracking.

4.1.3

four equal intervals along the perimeter of lifebuoy position should surround with retro-reflective tape affixed with 50mm width.

4.2 Dimensions

4.2.1

The lifebuoys should be less than the outer diameter of 800mm, an inner diameter of not less than 400mm.

4.2.2

lifebuoy shall be fitted with a peripheral diameter of not less than 9.5mm, the length is not less than 4 times the outer diameter of the lifebuoy buoyant grabline. This should be a tight rope Solid body in the circle surrounding four equidistant positions, and form four equal length grommet.

4.3 wt.

Lifebuoy weight should be greater than 2.5kg. With a self-activating smoke signal and a self-bright light floating buoy attached speed polishing apparatus, the weight should be greater than 4kg.

4.4 Material

Integral lifebuoy material and the inner shell rechargeable lifebuoy filled with closed-cell foam material shall be material.

4.5 Performance

4.5.1

The lifebuoys should be resistant to high temperature, no shrinkage, cracking, swelling, decomposition.

4.5.2

Lifebuoy cast backward from a predetermined height, should be no cracking or breaking.

4.5.3

lifebuoy should oil, no shrinkage, cracking, swelling, decomposition.

4.5.4

lifebuoy should be fire-resistant, not burning or continue melting after the fire.

4.5.5

Lifebuoy should be capable of supporting 14.5kg of iron in fresh water continuously float 24h.

4.5.6

Lifebuoy hanging in the free case, it should be able to withstand the weight of 90kg sustained 30min and permanent deformation without rupture.

4.5.7

For machines with self-activating smoke signal and a self-bright light floating buoy attached speed throwing device, shall be released to trigger the device.