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STANDARD

**3902**

Second edition  
1990-02-15

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**Shipbuilding and marine structures — Gaskets  
for rectangular windows and side scuttles**

*Construction navale et structures maritimes — Joints pour fenêtres rectangulaires et  
hublots*



Reference number  
ISO 3902 : 1990 (E)

ISO 3902:1990 (F)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 3902 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

This second edition cancels and replaces the first edition (ISO 3902 : 1976), clauses 5 and 6 of which have been technically revised.

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# Shipbuilding and marine structures – Gaskets for rectangular windows and side scuttles

## 1 Scope

This International Standard specifies the dimensions and material of gaskets used for ensuring watertightness between the main components (main frame, glassholder, deadlight) of side scuttles of ships complying with ISO 1751 and rectangular windows of ships complying with ISO 3903.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 48 : 1979, *Vulcanized rubbers – Determination of hardness (hardness between 30 and 85 IRHD)*.

ISO 1751 : 1977, *Shipbuilding – Ships' side scuttles*.

ISO 3903 : 1977, *Shipbuilding – Ships' ordinary rectangular windows*.

## 3 Classification

The gaskets are classified by type as follows:

- Types A and B, for use with side scuttles according to ISO 1751 and with rectangular windows according to ISO 3903;
- Type C, for use with rectangular windows according to ISO 3903 only.

## 4 Dimensions

The cross-sectional dimensions of the three types are shown in figure 1.

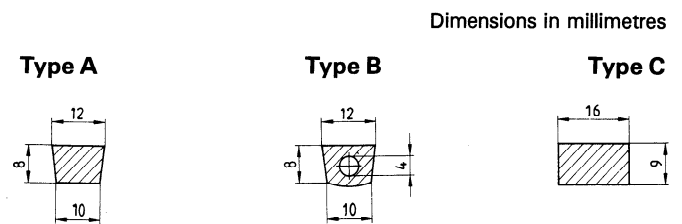


Figure 1 – Cross-sections of gaskets

## 5 Material

The gaskets shall be made from natural or synthetic rubber, at the manufacturer's option, having the following properties:

- a) hardness: 40 IRHD  $\pm$  5 IRHD (IRHD = International Rubber Hardness Degrees), in accordance with ISO 48;
- b) resistant to seawater;
- c) resistant to ultra-violet light;
- d) working capacity from  $-20$  °C up to  $+70$  °C.

## 6 Designation

### 6.1 Reference designation

Gaskets conforming to this International Standard shall be designated for reference purposes by the following, in the order given:

- a) denomination: "Gasket";
- b) number of this International Standard: ISO 3902;
- c) type A, B or C.

#### EXAMPLE

A gasket according to ISO 3902, type A, is designated as follows:

**Gasket ISO 3902-A**

### 6.2 Ordering designation

For ordering purposes the reference designation, according to 6.1, can be extended with the delivery length in metres.

#### EXAMPLE

A gasket according to ISO 3902, type A, 100 m long, is designated as follows:

**Gasket ISO 3902-A-100 m**