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International Standard



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## General purpose thimbles for use with steel wire ropes — Specification

*Cosses d'usages courants destinées à être utilisées avec des câbles en acier — Spécifications*

Second edition — 1984-07-15

Sample Document

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UDC 667.72 : 621.885

Ref. No. ISO 2262-1984 (E)

**Descriptors** : lifting equipment, wire rope, rope thimbles, specifications, tests, performance tests.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

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.

International Standard ISO 2262 was developed by Technical Committee ISO/TC 111, *Round steel link chains, lifting hooks and accessories*, and was circulated to the member bodies in March 1983.

It has been approved by the member bodies of the following countries:

Australia	India	Romania
Austria	Italy	South Africa, Rep. of
Belgium	Japan	Sweden
Canada	Norway	United Kingdom
Germany, F.R.	Poland	

The member body of the following country expressed disapproval of the document on technical grounds:

Netherlands

This second edition cancels and replaces the first edition (i.e. ISO 2262-1972).

# General purpose thimbles for use with steel wire ropes — Specification

## 1 Scope and field of application

This International Standard specifies the requirements for general purpose thimbles suitable for use with steel wire ropes complying with ISO 2408, having a maximum tensile grade of 1 770 MPa(N/mm<sup>2</sup>), with diameters from 4 to 60 mm.

It does not apply to thimbles for use with fibre ropes.

Reeving thimbles and solid thimbles are not included.

## 2 References

ISO 630, *Structural steels*.

ISO 1461, *Metallic coatings — Hot dip galvanized coatings on fabricated ferrous products — Requirements*.

ISO 2408, *Steel wire ropes for general purposes — Characteristics*.<sup>1)</sup>

ISO 6892, *Metallic materials — Tensile testing*.<sup>2)</sup>

## 3 Nominal size

The nominal size of a thimble is the nominal diameter of the rope for which it has been primarily designed. The range of sizes of thimbles covered by this International Standard is from 4 to 60 mm.

## 4 Dimensions

The dimensions of thimbles shall comply with the appropriate values given in the table.

## 5 Material

The material from which the thimbles are to be formed shall be a steel that complies with ISO 630 or equivalent; it shall have

the following mechanical properties when tested in accordance with ISO 6892:

- tensile strength: 360 to 520 MPa (N/mm<sup>2</sup>);
- elongation after fracture: 20 % min.

## 6 Galvanizing

Unless otherwise specified, thimbles shall be galvanized with a zinc coating of at least 120 g/m<sup>2</sup> in accordance with ISO 1461.

## 7 Workmanship and freedom from defects

Thimbles shall be neatly formed, and shall be free from any flaw, defect, sharp edges or roughness, which might damage the rope.

The joint formed at the point of the thimble shall not be welded. A small gap at the joint may be allowed after galvanizing.

The thimbles may either be pointed (see figure 1) or without points (see figure 2), at the option of the manufacturer, unless one or other type is specifically ordered by the purchaser.

## 8 Prototype test

### 8.1 Object

The prototype test is intended to demonstrate that the thimble specified by the manufacturer and having dimensions which meet the requirements of this International Standard can withstand the maximum loading conditions likely to be imposed upon it under normal conditions of use.

The purpose of this test is to prove the design, material and method of manufacture of the thimble. Any change in material specification, method of manufacture or critical dimensions outside the normal manufacturing tolerances shall require that the prototype test in 8.2 be undertaken on the modified thimble.

1) At present at the stage of draft. (Revision of ISO 2408-1973.)

2) At present at the stage of draft. (Revision of ISO 82-1974.)