

# INTERNATIONAL STANDARD

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## **Industrial tyres and rims — Solid tyres (metric series) for pneumatic tyre rims — Designation, dimensions and marking**

*Pneumatiques et jantes pour matériel de manutention — Bandages pleins (série millimétrique) pour jantes de pneumatiques — Désignation, cotes et marquage*



Reference number  
ISO 10499:1991(E)

## 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 voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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# Industrial tyres and rims — Solid tyres (metric series) for pneumatic tyre rims — Designation, dimensions and marking

## 1 Scope

This International Standard specifies the main requirements, including designations, dimensions and markings, of the metric series of rubber solid tyres for pneumatic tyre rims primarily intended for industrial machines for use on prepared surfaces.

Rim contours fitting these tyres will be specified in a future part of ISO 3739.

## 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 3739-1:—<sup>1)</sup>, *Industrial tyres and rims — Part 1: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims — Designation, dimensions and marking*.

ISO 3877-4:1984, *Tyres, valves and tubes — List of equivalent terms — Part 4: Solid tyres*.

ISO 4223-2:1991, *Definitions of some terms used in the tyre industry — Part 2: Solid tyres*.

## 3 Definitions

For definitions of terms relating to solid tyres, see ISO 4223-2; equivalent terms are given in ISO 3877-4.

## 4 Tyre designations

The dimensional and constructional characteristics shall be indicated as follows:

Nominal section width / Nominal aspect ratio - Nominal rim diameter code / Nominal rim width code

### 4.1 Nominal section width

The nominal section width of the tyre shall be indicated in millimetres, ending either in 0 or 5.

### 4.2 Nominal aspect ratio

The nominal aspect ratio shall be expressed as a percentage and shall be a multiple of 5.

### 4.3 Nominal rim diameter code

For tyres mounted on existing rims, the code shall be as given in table 1.

Table 1 — Nominal rim diameter code

Nominal rim diameter code	Nominal rim diameter, $D_r$ , mm
4	102
6	152
8	203
9	229
10	254
12	305
15	381

1) To be published.