



BSI Standards Publication

Industrial tyres and rims

Part 2: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims — Load ratings

National foreword

This British Standard is the UK implementation of [ISO 3739-2:2021](#).

The UK participation in its preparation was entrusted to Technical Committee AUE/4, Tyres and wheels for motor vehicles.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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© The British Standards Institution 2021
Published by BSI Standards Limited 2021

ISBN 978 0 539 12842 0

ICS 83.160.99

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2021.

Amendments/corrigenda issued since publication

Date	Text affected
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INTERNATIONAL
STANDARD

ISO
3739-2

Second edition
2021-07-15

Industrial tyres and rims —

Part 2:

**Pneumatic tyres (metric series) on 5
degrees tapered or flat base rims —
Load ratings**

Pneumatiques et Jantes industriels pour matériel de manutention —

*Partie 2: Pneumatiques (série millimétrique) montés sur jantes
coniques à 5 degrés ou à base plate — Capacités de charge*



Reference number
ISO 3739-2:2021(E)

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 7, *Industrial tyres and rims*.

This second edition cancels and replaces the first edition ([ISO 3739-2:1992](http://www.iso.org/iso/3739-2:1992)), which has been technically revised.

The main changes compared to the previous edition are as follows:

- added rim diameter codes larger than 15.

A list of all parts in the ISO 3739 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Industrial tyres and rims —

Part 2:

Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims — Load ratings

1 Scope

This document specifies the load ratings of the metric series of pneumatic tyres primarily intended for industrial vehicles for use on prepared surfaces.

[ISO 3739-1](#) deals with designation, dimensions and marking; [ISO 3739-3](#) deals with rim contours for these tyres.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[ISO 3739-1](#), *Industrial tyres and rims – Part 1: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims – Designation, dimensions and marking*

[ISO 4223-1](#), *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

[ISO 5053-1](#), *Industrial trucks — Vocabulary — Part 1: Types of industrial trucks*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in [ISO 4223-1](#) and [ISO 5053-1](#) apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <http://www.electropedia.org/>

4 Reference load-carrying capacity

The 100 % reference load-carrying capacity is the load corresponding to the load index marked on the tyre. The correlation between load index and tyre load-carrying capacity shall conform to [ISO 3739-1](#).

Reference load-carrying capacities of several versions of the same tyre size (same dimensional and constructional characteristics) shall be based on reference inflation pressures of 550 kPa, 675 kPa, 825 kPa and 1 000 kPa.

5.3 Calculated load

Calculated loads from [Tables 1, 2, 3, and 4](#) shall be rounded to nearest 5 kg

5.4 Dual tyre load

When fitted in dual formation, the load for the two tyres is twice that for a single tyre.

6 Inflation pressures

Operating cold inflation pressures should be agreed between tyre and vehicle manufacturers taking into account not only the tyre load-carrying capacity, but also the operating conditions, the maximum speed, the position of the tyre on the vehicle, service conditions and the construction and characteristics of the vehicle.

Cold inflation pressure means the pressure taken with the tyre at ambient temperature; it does not include any pressure build-up due to tyre usage.

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