

This is a preview of "ISO 4000-1:2015". [Click here to purchase the full version from the ANSI store.](#)

Eleventh edition
2015-09-15

Passenger car tyres and rims —

Part 1: Tyres (metric series)

*Pneus et jantes pour voitures particulières —
Partie 1: Pneumatiques (série millimétrique)*



Reference number
ISO 4000-1:2015(E)

© ISO 2015

This is a preview of "ISO 4000-1:2015". Click [here](#) to purchase the full version from the ANSI store.



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

This is a preview of "ISO 4000-1:2015". Click here to purchase the full version from the ANSI store.

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Designation	1
4.1 Size and construction.....	1
4.1.1 Characteristics.....	1
4.1.2 Nominal section width.....	1
4.1.3 Nominal aspect ratio.....	2
4.1.4 Tyre construction code.....	2
4.1.5 Nominal rim diameter code.....	2
4.2 Service description.....	3
4.2.1 General.....	3
4.2.2 Load index.....	3
4.2.3 Speed categories.....	3
4.3 Other service characteristics.....	3
5 Marking	6
6 Tyre dimensions	7
6.1 Rounding values.....	7
6.2 Calculation of design tyre dimensions.....	7
6.2.1 Theoretical rim width, R_{th}	7
6.2.2 Measuring rim width code, R_{mc}	7
6.2.3 Design tyre section width, S	8
6.2.4 Design tyre section height, H	8
6.2.5 Design tyre overall diameter, D_o	8
6.2.6 Guidelines.....	8
6.3 Calculation of maximum overall (grown) tyre dimensions in service tyres mounted on their measuring rims.....	8
6.3.1 General.....	8
6.3.2 Maximum overall (grown) width in service, W_{max}	9
6.3.3 Maximum overall (grown) diameter in service, $D_{o max}$	9
6.4 Calculation of minimum tyre dimensions for radial ply tyres mounted on their measuring rims.....	9
6.4.1 Minimum tyre section width, S_{min}	9
6.4.2 Minimum tyre overall diameter, $D_{o min}$	9
6.5 Range of approved rims.....	10
7 Tyre dimension measurement procedure	10
8 Inflation pressures	10
9 Load capacities	11
10 Choice of tyre sizes	11
11 Camber angle	12
Annex A (normative) Guideline values for metric-series tyres	14
Annex B (normative) Load indices for passenger car tyres	21
Annex C (normative) Minimum inflation pressure for intermediate load	43
Annex D (informative) Other existing size markings	51
Bibliography	53

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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 3, *Passenger car tyres and rims*.

This eleventh edition of ISO 4000-1 cancels and replaces the tenth edition (ISO 4000-1:2013), which has been technically revised.

ISO 4000 consists of the following parts, under the general title *Passenger car tyres and rims*:

- *Part 1: Tyres (metric series)*
- *Part 2: Rims*