
**All-terrain (AT) tyres and rims —
Symbol marked pneumatic tyres
on 5° tapered rims — Designation,
dimension, marking and load ratings**

*Pneumatiques et jantes tout terrains — Pneumatiques marqués
par un symbole pour jantes à 5° — Désignation, côtes, marquage et
capacités de charge*

Sample Document

get full document from standards.iteh.ai



Sample Document

get full document from standards.iteh.ai



COPYRIGHT PROTECTED DOCUMENT

© ISO 2017, 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

Contents

Page

Foreword	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Tyre size designations	2
4.1 Dimensional and constructional characteristics	2
4.1.1 General	2
4.1.2 Prefix	2
4.1.3 Nominal overall diameter code	2
4.1.4 Nominal section width code	2
4.1.5 Tyre construction code	3
4.1.6 Nominal rim diameter code	3
4.2 Service condition	3
4.2.1 General	3
4.2.2 Symbol of reference inflation pressure	4
4.2.3 Service description	4
4.3 Other service characteristics	4
5 Marking	4
6 Tyre dimensions	5
6.1 General	5
6.2 Calculation of design tyre dimensions	5
6.2.1 Theoretical rim width, R_{th}	5
6.2.2 Measuring rim width, R_m	5
6.2.3 Design tyre section width, S	5
6.2.4 Design tyre overall diameter, D_o	6
6.2.5 Design tyre section height, H	6
6.3 Calculation of "maximum overall tyre dimensions"	6
6.3.1 General	6
6.3.2 Maximum tyre overall width, W_{max}	6
6.3.3 Maximum tyre overall diameter, $D_{o,max}$	6
6.4 Calculation of "maximum overall grown tyre dimensions"	6
6.4.1 General	6
6.4.2 Maximum grown tyre overall width in service, W_G	7
6.4.3 Maximum dynamic tyre overall diameter in service, $D_{o,dyn}$	7
6.5 Calculation of "minimum tyre dimensions"	7
6.5.1 General	7
6.5.2 Minimum tyre section width, S_{min}	7
6.5.3 Minimum tyre overall diameter, $D_{o,min}$	7
6.6 Range of approved rims widths	7
7 Method of measurement of tyre dimensions	8
8 Reference load carrying capacity	8
9 Load ratings	9
10 Inflation pressures	9
11 Rims	9
11.1 Designation and marking	9
11.2 Rim contours	10
11.3 Rim diameter and hump circumference	11
12 Valve hole	11
12.1 General	11
12.2 Snap-in valves	11

Annex A (normative) Load indices for all-terrain (AT) tyres	13
--	-----------

Sample Document

get full document from standards.iteh.ai

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 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 the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, SC 10, *Cycle, moped, motorcycle tyres and rims*.

This second edition cancels and replaces the first edition (ISO 29802:2009), which has been technically revised.

Sample Document

get full document from standards.iteh.ai

All-terrain (AT) tyres and rims — Symbol marked pneumatic tyres on 5° tapered rims — Designation, dimension, marking and load ratings

1 Scope

This document specifies the designations, dimensions, markings and load ratings of pneumatic tyres primarily intended for all-terrain vehicles (ATV). It also specifies the designation, marking and contours of rims.

The tyres meet the following parameters:

- a) speeds not exceeding 130 km/h (Speed Symbol M);
- b) fitted to (AT) 5° tapered drop centre rims;
- c) nominal rim diameter codes of 7 to 14 inclusive.

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 3877-1, *Tyres, valves and tubes — List of equivalent terms — Part 1: Tyres*

ISO 4223-1:2002, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

ISO 80000-1, *Quantities and units — Part 1: General*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-1 and ISO 3877-1 and the following apply.

For the purposes of this document, the following terms and definitions apply.

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

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

3.1

NHS

NOT FOR HIGHWAY SERVICE

marking that identifies tyres for off-road applications

Note 1 to entry: The following terms may be used: “NOT FOR HIGHWAY SERVICE” or “NHS” or “NOT FOR HIGHWAY USE”.