INTERNATIONAL STANDARD

ISO 8664

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Agricultural tractor drive-wheel tyres — Service description (load index — speed symbol) marked tyres

iTeh STANDARD PREVIEW

Pneumatiques pour roues motrices de tracteurs agricoles — Pneumatiques marqués de leurs caractéristiques d'utilisation (indice de charge et code de vitesse) ISO 8664:1992

https://standards.iteh.ai/catalog/standards/sist/92cd4462-c76c-4073-ae79ee00b6968b8d/iso-8664-1992



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.

International Standard ISO 8664 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Sub-Committee SC 5, *Agricultural tyres and rims*.

ISO 8664:1992

Annex A forms an integral part of this international Standard Annex B462-c76c-4073-ae79for information only. ce00b6968b8d/iso-8664-1992

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Agricultural tractor drive-wheel tyres — Service description (load index — speed symbol) marked tyres

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1 Scope

ISO 4223-1:1989, Definitions of some terms used in ISO 8664:1 the tyre industry --- Part 1: Pneumatic tyres. https://standards.iteh.ai/catalog/standards/

This International Standard specifies the marking disd/so-450-4251-1:1992, Tyres (ply rating marked series) and isting series of agricultural tractor drive-wheel tyres with service description (load index and speed symbol).

It applies to tyres of radial construction in the speed categories 30 km/h (speed symbol A6) and 40 km/h (speed symbol A8).

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.

rims for agricultural tractors and machines - Part 1: Tyre designation and dimensions.

ISO 4251-3:1985, Tyres and rims (existing series) for agricultural tractors and machines — Part 3: Rims.

Definitions 3

For the purposes of this International Standard, the definitions given in ISO 4223-1 and the following definition apply.

3.1 cyclic loading application: Gradual increase of payload to maximum allowable load with unloading before off-field transport.

4 Tyre marking

The tyre marking shall consist of the designation of the dimensional and constructional characteristics (tyre size) and the service condition characteristics (load index and speed symbol).

EXAMPLE



5 Tyre dimensions

Standard sizes, measurement rims, tyre design dimensions and maximum tyre dimensions in service are given in table 1.

6 Tyre load ratings

Load indices and tyre loads for the speed indicated by the speed symbol (reference speed) and reference inflation pressures for the tyres of table 1 are given in annexes A and B. Tyre size (R = radial)

7 Tyre applications other than at reference speed

For applications without high and sustained torques, including road transport, the load/speed relationship is given in table 2.

The tyre manufacturer concerned shall be consulted for the actual pressure to be used when applying the load/speed relationship given in table 2.

The rim/wheel manufacturer shall be consulted for confirmation of the strength of the rim/wheel for the intended service.

Dimensions in millimetres

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Table 1 — Standard sizes, measurement rims, and dimensions

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	https://stan	dards.itch.ai/cata Design dtyre/sist/92cd4462-d76c-4073-ae79- In service				
Tyre size	Measurement rim width code ¹⁾	Section width	Overall diameter	Maximum overall width	Maximum overall diameter ²⁾	
a) Normal sectio	n height tyres					
11.2 R 20 11.2 R 24 11.2 R 28 11.2 R 36 11.2 R 38	10	284	995 1 095 1 200 1 400 1 455	307	1 015 1 115 1 220 1 420 1 475	
12.4 R 20 12.4 R 24 12.4 R 28 12.4 R 32 12.4 R 36 12.4 R 38	11	315	1 045 1 145 1 250 1 350 1 450 1 500	340	1 070 1 170 1 275 1 375 1 475 1 525	
13.6 R 24 13.6 R 28 13.6 R 36 13.6 R 38	12	345	1 190 1 295 1 500 1 550	373	1 215 1 320 1 525 1 575	
14.9 R 24 14.9 R 26 14.9 R 28 14.9 R 30 14.9 R 38	13	378	1 245 1 295 1 350 1 400 1 600	408	1 275 1 325 1 380 1 425 1 630	

Tyre size	Measurement rim width code ¹⁾	Desig	n tyre	In service		
		Section width	Overall diameter	Maximum overall width	Maximum overall diameter ²⁾	
16.9 R 24 16.9 R 26 16.9 R 28 16.9 R 30 16.9 R 34 16.9 R 38 16.9 R 42	15	429	1 320 1 370 1 420 1 475 1 575 1 675 1 775	463	1 350 1 400 1 450 1 505 1 605 1 705 1 805	
18.4 R 24 18.4 R 26 18.4 R 28 18.4 R 30 18.4 R 34 18.4 R 34 18.4 R 38 18.4 R 42	16	467	1 395 1 440 1 490 1 545 1 645 1 750 1 850	504	1 425 1 475 1 520 1 575 1 680 1 780 1 880	
20.8 R 34 20.8 R 38 20.8 R 42	18	528	1 735 1 835 1 935	570	1 770 1 870 1 970	
23.1 R 26 23.1 R 30 23.1 R 34	²⁰ iTeh	587 STANDA]	1 605 1 700 1 800 RD 1 800 FVI	637 FW	1 645 1 740 1 840	
24.5 R 32	21	622 (standard	1 800	672	1840	
b) Low section height tyres						
30.5 LR 32	27	775 <u>ISO 866</u> s iteb ai/catalog/standar	4:1992 1 820	837 4073-ae79-	1 860	
1) For approved rim contours see ISO 4251-1-and ISO 4251-3. The rim/wheel manufacturer shall be consulted for confirmation of the strength of the rim/wheel for the intended service.						

2) Figures are based on regular service tyres. The tyre manufacturer shall be consulted if tyres with deviating profiles are used.

Table 2 — Load/speed relationship

	Maximum tyre load ¹⁾				
Speed km/h 10	Tyres with speed symbol A6 (30 km/h reference speed)	Tyres with speed symbol A8 (40 km/h reference speed)			
10	150	150			
15	134	134			
20	123	123			
30	1002)	1072			
35	95	107-7			
40	90	100			
45	_	96			
50	—	91			

2) This also applies for all field applications with high and sustained torques.

8 Tyre application on combine harvesters

On combine harvesters in cyclic loading application, except hillside combines, a load of up to 170 % of the basic tyre loads given in tables A.1 and B.1 is permitted for speeds up to 10 km/h with an inflation pressure increase of approximately 30 % (consult the tyre manufacturer). This load increase shall include all possible field and user modifications that increase the vehicle mass and shall apply only to load increases which occur during the harvesting process.

When not in cyclic application (e.g. grain tanks are empty during transport) the loads in table 2 apply.

For hillside operations over 11° (22 %) slope, only the basic tyre loads are permitted.

The rim and wheel manufacturer shall be consulted concerning the strength of the wheels.

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ISO 8664:1992 https://standards.iteh.ai/catalog/standards/sist/92cd4462-c76c-4073-ae79ee00b6968b8d/iso-8664-1992

Annex A

(normative)

Load index and tyre load for tyres with reference inflation pressure 160 kPa

Tyre loads for the speed indicated by the speed symbol (reference speed — see table 2) for a range of tyres with a reference inflation pressure of 160 kPa are given in table A.1. The inflation pressure is a minimum reference value for the loads given in the table.

16.9 R 30

16.9 R 34

16.9 R 38

16.9 R 42

137

139

141

143

2 300 2 430

2 575

2 725

The tyre manufacturer concerned shall be consulted about the actual pressures to be used in practice.

The load for dual tyres equals 1,76 times the load for a single tyre.

Tyre size	Load	Basic tyre load		Tyre size	Load	Basic tyre load
	index	kg		1,10 5120	index	kg
11.2 R 20	111	1 090		18.4 R 24	139	2 430
11.2 R 24	114	1 180		18.4 R 26	140	2 500
11.2 R 28	116	Teh S250AND	A R I	D18.4 R 28	141	2 575
11.2 R 36	120	1400		18.4 R 30	142	2 650
11.2 R 38	121	1(450 000	de i	18.4 R 34	144	2 800
		(Stanua)	us.	18.4 R 38	146	3 000
12.4 R 20	116	1 250		18.4 R 42	148	3 150
12.4 R 24	119	1 360	8667.10	00		
12.4 R 28	121	1:450:// doi:10.1010/	1-1-1-/-	20.8 R 34	151	3 450
12.4 R 32	122 1122	s://standards_liep_al/catalog/stal	idards/si	20.8 R 38	13-ae 79- 153	3 650
12.4 R 36	124	1 600 ^{ce00b6968b}	8d/iso-8	⁶⁶⁴⁻¹ 20.8 R 42	155	3 875
12.4 R 38	125	1 650				
				23.1 R 26	153	3 650
13.6 R 24	121	1 450		23.1 R 30	155	3 875
13.6 R 28	123	1 550		23.1 R 34	157	4 125
13.6 R 36	127	1 750				
13.6 R 38	128	1 800		24.5 R 32	159	4 375
						-
14.9 R 24	126	1 700		30.5 LR 32	166	5 300
14.9 R 26	127	1 750				
14.9 R 28	128	1 800				
14.9 R 30	129	1 850				
14.9 R 38	133	2 060				
16.9 R 24	134	2 120				
16.9 R 26	135	2 180				
16.9 R 28	136	2 240				

Table A.1 — Load per tyre at reference speed and inflation pressure

Annex B

(informative)

Tyres with reference inflation pressures 120 kPa and 210 kPa

Tyre loads for the speed indicated by the speed symbol (reference speed — see table 2) for two ranges of tyres with reference inflation pressures of 120 kPa and 210 kPa are given in table B.1. The inflation pressure is a minimum reference value for the loads

given in the table. The tyre manufacturer concerned shall be consulted about the actual pressures to be used in practice.

The load for dual tyres equals 1,76 times the load for a single tyre.

	Reference inflation pressure 120 kPa		Reference inflation pressure 210 kPa		
Tyre size	Lood index	Basic tyre load	Lood index	Basic tyre load	
	kg kg			kg	
13.6 R 28	117 i Teh	STANDARD P	126 RFV/IFV	1 700	
14.9 R 26 14.9 R 28	121 122	1 450	132 133	2 000 2 060	
14.9 R 30	123	(stang 550 us.iter	134	2 120	
16.9 R 24 16.9 R 26	126	<u>15708664:1992</u>	137 139 4072 d	2 300 2 430	
16.9 R 28	129	ec00b6968b8d/iso-8664-19	14402-0700-4075-8	2 500	
16.9 R 30	130	2100	141	2 575	
16.9 R 38	134	2 120	145	2 900	
18.4 R 26	134	2 120	145	2 900	
18.4 R 34	139		149	3 250	
18.4 R 38	141		151	3 450	
10.4 N 42 18 4 B 46	143		153		
10.4 11 40	144	2 800	100	3 875	
20.8 R 34	145	2 900	156	4 000	
20.8 R 38	14/		14/	4 125	
20.8 R 42	149	3 250	159	4 375	
23.1 R 34	151	3 450	161	4 625	
24.5 R 32	154	3 750	164	5 000	
30.5 LR 32	159	4 375	170	6 000	

Table B.1 — Load per tyre at reference speed and inflation pressure

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https://standards.iteh.ai/catalog/standards/sist/92cd4462-c76c-4073-ae79ee00b6968b8d/iso-8664-1992