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Tyres for agricultural tractors and machines — Code-designated and service-description marked radial drive-wheel tyres

Pneumatiques pour tracteurs agricoles et machines agricoles — Désignation code et description marquées sur les pneumatiques

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ISO 8664:2005(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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

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

This second edition cancels and replaces the first edition (ISO 8664:1992), which has been technically revised. (standards.iteh.ai)

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Tyres for agricultural tractors and machines — Code-designated and service-description marked radial drive-wheel tyres

1 Scope

This International Standard specifies the marking, dimensions, load ratings and reference speeds for existing 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), 40 km/h (speed symbol A8), and 50 km/h (speed symbol B).

2 Normative references

The following referenced documents are indispensable for the application 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 and successful the latest edition of the referenced document (including any amendments) applies and successful the latest edition of the referenced document (including any amendments) applies and successful the latest edition of the referenced document (including any amendments) applies and successful the latest edition of the referenced document (including any amendments) applies and successful the latest edition of the referenced document (including any amendments) applies.

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

ISO 4251-1, Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 1: Tyre designation and dimensions, and approved rim contours 64-2005

ISO 4251-3, Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 3: Rims

3 Terms and definitions

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

3.1

cycling loading conditions

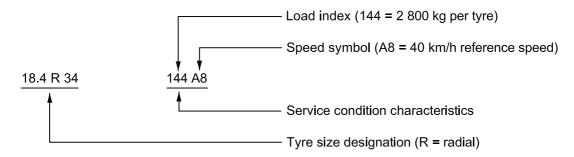
gradual increase of payload to maximum allowable load with unloading before off-field transport

4 Tyre marking

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

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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 Annex A.

When used as dual tyres, the load per tyre shall be reduced to 88 % of the single tyre load.

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Table 1 — Standard sizes, measurement rims and dimensions

https://standards.iteh.ai/catalog/standards/sist/1ede3311-5b5b-471f-ac0c-Dimensions in millimetres

	Tyre size	Measurement	Desiç	ın tyre	In service				
	designation	rim width	Section width	Overall diameter	Maximum overall width	Maximum overall diameter ^b			
a)	Normal section heigh	ction height tyres							
	8.3 R 24	7.00	211	985	228	1 000			
	9.5 R 24	8.00	241	1 040	260	1 080			
	9.5 R 28		241	1 140	260	1 155			
	11.2 R 20	10.00)		995		1 015		
	11.2 R 24		284	1 095	307	1 115			
	11.2 R 28			1 200		1 220			
	11.2 R 36			1 400		1 420			
	11.2 R 38			1 455		1 475			
	12.4 R 20	11.00	20		1 045		1 070		
	12.4 R 24			1 145	340	1 170			
	12.4 R 28		315	1 250		1 275			
	12.4 R 32			1 350		1 375			
	12.4 R 36			1 450		1 475			
	12.4 R 38			1 500		1 525			
	12.4 R 54			1 921		1 943			

Table 1 — (continued)

	Tyre size	Measurement	Desig	ın tyre	In service		
	designation	rim width	Section width	Overall diameter	Maximum overall width	Maximum overall diameter ^b	
	13.6 R 24			1 190		1 215	
	13.6 R 28	12.00	345	1 295	373	1 320	
	13.6 R 36			1 500		1 525	
	13.6 R 38			1 550		1 575	
	14.9 R 24			1 245		1 275	
	14.9 R 26			1 295		1 325	
	14.9 R 28	13.00	378	1 350	408	1 380	
	14.9 R 30			1 400		1 425	
	14.9 R 34			1 519		1545	
	14.9 R 38			1 600		1 630	
	14.9 R 46			1 824		1 851	
	15.5 R 38	14.00	394	1 570	426	1 595	
	16.9 R 24			1 320		1 350	
	16.9 R 26		NDARD 1 429 Indards.ite	1 370	463	1 400	
	16.9 R 28	Teh STA 15.00 (sta		PR 1 420 FV		1 450	
	16.9 R 30			1 475		1 505	
	16.9 R 34			h.ai 5 75		1 605	
	16.9 R 38			1 675		1 705	
	16.9 R 42	// 1 1 1 1 1		1 775		1 805	
	18.4 R 24	s//standards.iteh.ai/c ∕a∂	atalog/standards/sist/1 7679ed09f6/iso-8664	2005 1 395	ac0c-	1 425	
	18.4 R 26	40		1 440		1 475	
	18.4 R 28			1 490		1 520	
	18.4 R 30	16.00	467	1 545	504	1 575	
	18.4 R 34			1 645		1 680	
	18.4 R 38			1 750		1 780	
	18.4 R 42			1 850		1 880	
	18.4 R 46			1 958		1 990	
	20.8 R 34			1 735		1 770	
	20.8 R 38	18.00	528	1 835	570	1 870	
	20.8 R 42			1 935		1 970	
	23.1 R 26			1 605		1 645	
	23.1 R 30	20.00	587	1 700	637	1 740	
	23.1 R 34			1 800		1 840	
	24.5 R 32	21.00	622	1 800	672	1 840	
b) L	ow section height	tyres	•				
	28 LR 26	25.00	719	1 607	777	1 645	
	30.5 LR 32	27.00	775	1 820	837	1 860	
а г	r approved rim contou		770	. 320	33,	. 000	

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.

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

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.

Maximum tyre load b Speed symbol Service speed a % km/h Speed symbol **A6 A8** В 10 140 150 150 15 130 134 134 A6 20 120 123 123 25 107 111 111 30 107 100 107 35 90 103 103 **A8** IS808664:200 40 100 100 45 96 100 В 50 91 100

Table 2 — Load/speed relationship

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 Table A.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.

Reference speeds are given in bold characters.

Expressed as a percentage of the basic tyre loads given in Table A.1.

Annex A

(normative)

Load index and basic tyre load with reference inflation pressures 120 kPa, 160 kPa, 210 kPa and 250 kPa

Tyre loads for the speed indicated by the speed symbol (reference speed — see Table 2) for tyres with reference inflation pressures of 120 kPa, 160 kPa, 210 kPa and 250 kPa are given in Table A.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.

When used as dual tyres, the load per tyre must be reduced to 88% of the single tyre load.

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

	Reference inflation pressure 120 kPa		Reference inflation pressure 160 kPa		Reference inflation pressure 210 kPa		Reference inflation pressure 250 kPa	
Tyre size designation	Load index	Basic tyre	Load	Basic tyre load	Load Index	Basic tyre load	Load index	Basic tyre load
	muex 1	kg (s	tandar			kg	IIIdex	kg
8.3 R 24		(6	104	900	, , , , , , , , , , , , , , , , , , ,			
9.5 R 24	lettes o	//standanda ital	107 ^{ISO 8}	1664:2975	:3311-5b5b-4	71.6 0 0 0 0		
9.5 R 28	nups	//standards.itel	4e7699ed09	6/iso-8004-20	05 05	(11-acoc-		
11.2 R 20			111	1 090				
11.2 R 24			114	1 180				
11.2 R 28			116	1 250				
11.2 R 36			120	1 400				
11.2 R 38			121	1 450				
12.4 R 20			116	1 250				
12.4 R 24			119	1 360				
12.4 R 28			121	1 450				
12.4 R 32			122	1 500				
12.4 R 36			124	1 600				
12.4 R 38			125	1 650				
12.4 R 54	123	1 550	128	1 800	133	2 060	137	2 300
13.6 R 24			121	1 450				
13.6 R 28	117	1 285	123	1 550	126	1 700		
13.6 R 36			127	1 750				
13.6 R 38			128	1 800				
14.9 R 24			126	1 700				
14.9 R 26	121	1 450	127	1 750	132	2000		
14.9 R 28	122	1 500	128	1 800	133	2060		