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INTERSTATE CONCIL FOR STANDARTIZATION, METROLOGY AND CERTIFICATION  
(ISC)

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22696-  
2013

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**(ISO 12297:2012, NEQ)**



2014

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:< ( 3166) 004-97	( 3166) 004-97	
	BY KZ MD RU	-

4 ISO12297:2012 Rolling  
 bearings - Steel cylindrical rollers - Dimensions and tolerances ( )  
 ). (NEQ)

5 2013 . 1301- 22696 • 2013 31 -  
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6 22696-77  
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## Rolling bearings. Cylindrical rollers. Specifications

- 2015-07-01

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515-77

801-78

2789-73

9013-59

10354-82

14192-96

16148-79

16272-79

17527-2003

24955-81

25256-2013

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17527.

24955

25256.

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(cylindrical roller):

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(nominal roller diameter):

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(single roller diameter):

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(mean roller diameter in a single plane):

3.5	(mean roller diameter):	-
3.6	(variation of roller diameter in a single plane):	-
3.7	(variation of mean roller diameter):	-
3.6	(nominal roller length):	-
3.9	(single roller length):	-
3.10	(mean roller length):	-
3.11	(nominal chamfer dimension):	-
3.12	(single radial chamfer dimension):	-
3.13	(single axial chamfer dimension):	-
3.14	(smallest single chamfer dimension):	-
3.15	(largest single chamfer dimension):	-
3.16	(runout of roller end face):	-
3.17	(deviation from circular form of roller outside diameter surface):	-
3.18	(surface roughness):	-
3.19	(roller lot):	-
3.20	(roller diameter gauge):	-
3.21	(interval of roller diameter gauge):	-

3.22	(roller diameter gauge lot):	,	
3.23	(mean diameter of roller lot):	,	-
3.24	(diameter gauge of roller lot):	,	
3.25	(roller length gauge):	,	
3.26	(interval of roller length gauge):	,	
3.27	(roller length gauge lot):	,	-
3.28	(mean length of roller lot):	,	-
3.29	(length gauge of roller lot):	,	-
3.30	(diameter variation of roller lot):	,	-
3.31	(length variation of roller lot):	,	
3.32	(roller grade):	,	
3.33	(hardness):	,	-
3.34	(roller outside diameter surface):	,	
3.35	(straightness of roller generatrix):	,	-
3.36	(roller bow):	,	-
3.37	(roller end face flatness):	,	
3.38	(roller end face concavity):	,	-
3.39	:	,	
3.40	(barrier packaging):	,	

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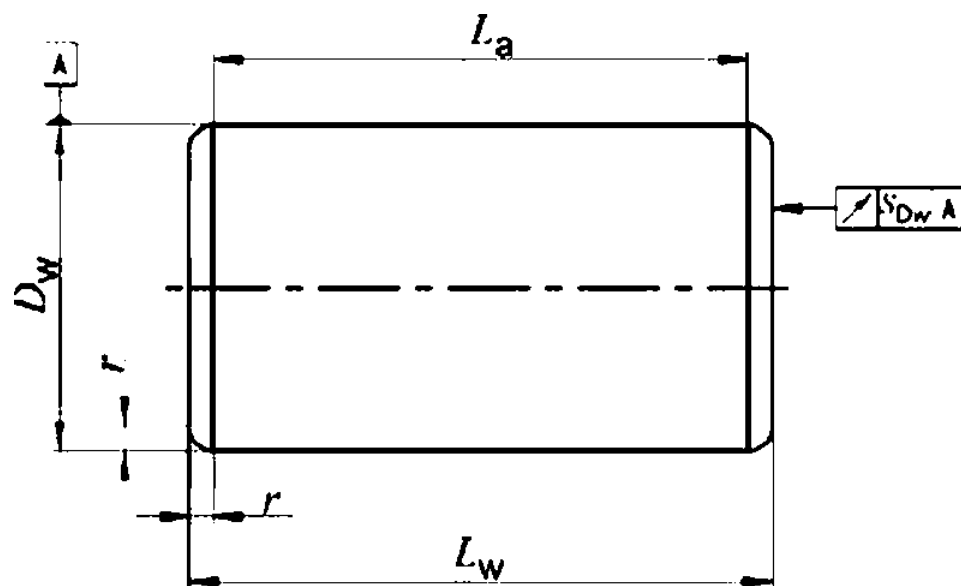


Рисунок 1 – Цилиндрический ролик

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·		»< «	fft ffIM	1000 ..	·			» msu	1000 ..
3	3	0.1	0.4	0.16	10	10	0.3	0.8	6.09
3	4	0.1	0.4	0.22	10	11	0.3	0.8	6.71
3	5	0.1	0.4	0.27	10	14	0.3	0.8	8.55
3.5	5	0.1	0.5	0.37	10	15	0.3	0.8	9.16
4	4	0.2	0.5	0.38	10	16	0.3	0.8	9.77
4	6	0.2	0.5	0.58	10	17	0.3	0.8	10.39
4	8	0.2	0.5	0.78	10	25	0.3	0.8	15.30
4.5	4.5	0.2	0.5	0.55	11	11	0.3	1.0	8.12
4.5	6	0.2	0.5	0.74	11	12	0.3	1.0	8.86
5	5	0.2	0.5	0.76	11	13	0.3	1.0	9.60
5	8	0.2	0.5	1.22	11	15	0.3	1.0	11.09
5	10	0.2	0.5	1.52	11	20	0.3	1.0	14.80
5.5	5.5	0.2	0.5	1.01	12	12	0.3	1.0	10.55
5.5	8	0.2	0.5	1.47	12	14	0.3	1.0	12.32
6	6	0.2	0.5	1.31	12	16	0.3	1.0	14.08
6	8	0.2	0.5	1.75	12	17	0.3	1.0	14.97
6	9	0.2	0.5	1.98	12	18	0.3	1.0	15.85
6	10	0.2	0.5	2.20	12	21	0.3	1.0	18.50
6	12	0.2	0.5	2.64	12	22	0.3	1.0	19.39
6.5	6.5	0.2	0.8	1.67	13	13	0.3	1.2	13.40
6.5	8	0.2	0.8	2.06	13	18	0.3	1.2	18.59
6.5	9	0.2	0.8	2.32	13	20	0.3	1.2	20.66
7	7	0.2	0.8	2.09	14	14	0.3	1.2	16.75
7	10	0.2	0.8	2.99	14	15	0.3	1.2	17.96
7	14	0.2	0.8	4.19	14	20	0.3	1.2	23.97
7.5	7.5	0.2	0.8	2.57	14	22	0.3	1.2	26.36
7.5	9	0.2	0.8	3.09	15	15	0.4	1.2	20.61
7.5	10	0.2	0.8	3.43	15	16	0.4	1.2	21.99
7.5	11	0.2	0.8	3.78	15	17	0.4	1.2	23.37
8	8	0.3	0.8	3.12	15	22	0.4	1.2	30.27
8	10	0.3	0.8	3.90	15	24	0.4	1.2	33.03
8	12	0.3	0.8	4.69	16	16	0.4	1.2	25.03
8	14	0.3	0.8	5.47	16	17	0.4	1.2	26.60
8	16	0.3	0.8	6.26	16	18	0.4	1.2	28.17
8	20	0.3	0.8	7.83	16	24	0.4	1.2	37.59
9	9	0.3	0.8	4.43	16	27	0.4	1.2	42.30
9	10	0.3	0.8	4.93	17	17	0.4	1.2	30.03
9	12	0.3	0.8	5.92	17	24	0.4	1.2	42.44
9	13	0.3	0.8	6.42	18	18	0.4	1.2	35.66
9	14	0.3	0.8	6.92	18	19	0.4	1.2	37.65

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18	26	0,4	1.2	51.6	28	46	0.6	1.7	221
18	30	0.4	1.2	59.5	30	30	0.6	1.7	165
19	19	0.4	1.5	41,9	30	42	0.6	1.7	232
19	20	0.4	1.5	44.1	30	48	0.6	1.7	265
19	21	0.4	1.5	46.3	30	52	0.6	1.7	287
19	28	0.4	1.5	61.8	32	32	0.6	2.2	200
19	32	0.4	1.5	70.7	32	46	0.6	2.2	288
20	20	0.4	1,5	48.9	32	52	0.6	2.2	326
20	30	0.4	1.5	73.4	34	34	0.6	2.2	240
21	21	0,5	1.5	56,6	34	55	0.6	2.2	389
21	22	0.5	1.5	59.3	34	66	0.6	2.2	467
21	30	0.5	1.5	81.0	36	36	0.7	2.2	285
21	32	0,5	1.5	86.4	36	58	0.7	2.2	460
22	22	0.5	1.5	65.1	38	38	0.7	2.2	336
22	24	0.5	1,5	71.0	38	52	0.7	2.2	460
22	34	0.5	1.5	100.7	38	62	0.7	2.2	548
23	23	0.5	1.5	74.4	40	40	0.7	2.2	392
23	34	0.5	1.5	110.1	40	65	0.7	2.2	637
24	24	0.5	1.5	84.6	42	42	0,7	2.2	454
24	26	0.5	1,5	91.6	42	62	0.7	2.2	670
24	36	0.5	1.5	127,0	42	65	0.7	2.2	703
24	38	0.5	1,5	134.0	42	67	0.7	2.2	724
25	25	0.5	1.7	95,6	42	70	0.7	2,2	757
25	27	0.5	1.7	103.2	45	45	0.7	2.2	558
25	33,5	0.5	1.7	128.2	45	65	0.7	2.2	807
25	36	0.5	1.7	137,7	45	75	0.7	2.2	931
25	40	0.5	1,7	153.1	45	80	0.7	2.2	993
26	26	0.5	1,7	107,5	45	90	0.7	2,2	1117
26	28	0.5	1.7	115.8	48	48	0.7	2.2	677
26	40	0.5	1.7	165.6	48	70	0.7	2.2	988
26	48	0.5	1.7	198.8	48	80	0.7	2.2	1130
28	28	0,6	1.7	134.3	50	50	0.7	2.2	766
28	30	0,6	1,7	143.9	50	85	0.7	2,2	1303
28	36	0.6	1.7	172.8	50	100	0.7	2.2	1533
28	44	0,6	1.7	211.3					

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		-									
I	18	10,25	16,25	16	-4	0.5	0,25	0.5	0.3	2	
	. 18 26								0.5		
II	18	10,5	16,5			1.0	0.5	0.8	0.5	1.0	
	. 18 26										
	. 26 40					1,5	0.8				
	18	10,5	16,5			1.0	0.5	1.0	0.5	1.0	3
	. 18 26								2,0		
	. 26 30	2.0	1,0								
	. 30 40	2.5	1.5								
III	18	11,0	17,0			2.0	1.0	1.3	1.0	2	
	. 18 26								3,0		1.5
	. 26 30	10,5	19,5			4.0	2.0		1.5	3	
	. 30 40										
	. 40 50								14,0		18,0
. 50 80											
IIIA	18	11,25	18,75			2.0	1,0	1.5	1.0	3	
	. 18 26								3.0		1,5
	. 26 30								4.0		2,0
	. 30 40	14,0	18.0			5.0	3.0		2.0	5	
	. 40 50										
. 50 80	15,0	20.0									
IV	18	0	-45			3.0	2,0	2.5	2.0	3	
	. 18 26								4.0		
	. 26 40	0	-48			5.0	3.0		3,0	5	
	. 40 50	0	•50						5,0		
	. 50 80										

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	. 15 26 .									
	. 26 40 .									
		2.5	-7.5	0	-20	5	5	3		
II	15 .	3	.15	0	-16	6	6	3		
	. 15 26 .									
	. 26 40 .			0	•20					
	. 40 25 .									
		5	-25					5		
	10 .	5	•20	0	-20	10	6	5		
	. 10 18 .						8			
	. 18 30 .						10			
	. 30 40 .						12			
	. 40 65 .						15			
III	26 .	10	-20	0	-16	10	10	3		
	. 26 40 .				-20			5		
	. 40 100 .			15	-45			8		
IIIA	10 .	10	•20		-16	8	8			
	. 10 18 .						10			
	. 18 30 .						15		18	
	. 30 40 .									
	. 40 50 .	10	-30	•20	10	25	8			
	. 50 100 .					15		35		
IV	10 .	0	-32			10	16			
	. 10 18 .						20			
	. 18 30 .						15		25	
	. 30 40 .	G	.50					20	30	8
	. 40 50 .									
	. 50 100 .									

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I	0.08	0.08	0.16	0.16
II	0.16	0.16	0.32	0.32
	0.16	0.32	0.32	0.63
III	0.20	6.26	0.63	0.63
IIIA	0.32	0.32	0.63	0.63
IV	-	0.32	-	0.63

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7.2

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81.7 83.9 HRA.....

61 65 ..... » » » 5 : 5 21 ;

60 65 ..... » » » .21 .

81,2 83,4 HRA

61 65 HRC.

HRA.

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5.1.5.2, 6.2 6.3..... 1 % , 15 ;  
 6.4.7.7-7. .... 0.1 % , 10 ;  
 7.3 7.4..... 0,03 % , 5 .  
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9.1. 5 - 9013. 5

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	. HRA									
	79.0	79.5	80.0	80.5	81.0	81.5	82.0	82.5	83.0	83.5
	HRA									
3.0	80.7	81.1	81.5	81.9	82.3	82.7	83.2	83.6	84.1	84.5
3.5	80.4	80.8	81.3	81.7	82.2	82.6	83.0	83.4	83.9	84.3
4.0	80,2	80,6	81.1	81.5	82.0	82.4	82,8	83.3	83,7	84.2
4.5	80.1	80.5	81.0	81.4	81.9	82.3	82.8	83.2	83.7	84.1

6									
Ov.	HRC								
	57	58	59	60	61	62	63	64	65
	HRC								
5	60.0	61.0	61.5	62.5	63.5	64.5	65.0	66.0	67.0
6	59.5	60.5	61.5	62.0	63.0	64.0	65.0	66.0	66.5
7	59.0	60.0	61.0	62.0	62.5	63.5	64.5	65.5	66.5
8	59.0	60.0	60.5	61.5	62,5	63.5	64,5	65.5	66.0
9	58.5	59.5	60.5	61.5	62.5	63.0	64.0	65.0	66.0
10	58.5	59.5	60.5	61.0	62.0	63.0	64.0	65.0	66.0
11	58.5	59.5	60,0	61.0	62,0	63.0	64.0	65.0	65.5
12	58.0	59.0	60.0	61.0	62.0	63.0	63.5	64.5	65.5
13	58.0	59.0	60.0	61,0	62.0	62.5	63.5	64.5	65.5
14	58.0	59.0	60.0	81.0	62.0	62.5	63.5	64.5	65.5
15	58.0	59.0	60.0	61,0	61.5	62.5	63.5	64.5	65.5

9.2	7.3	7.4
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9.3		
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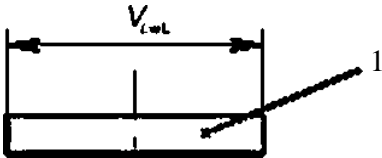
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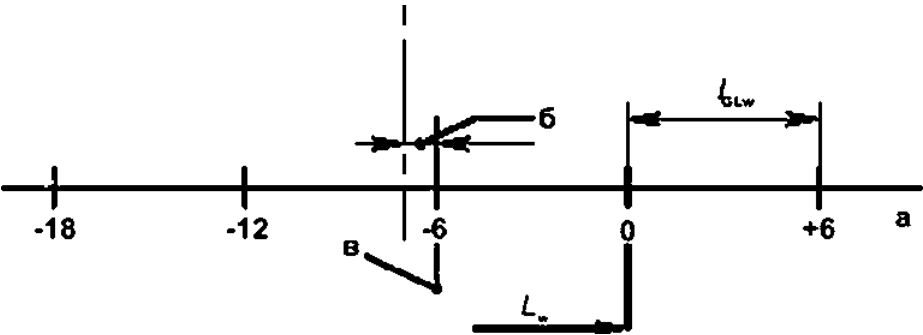
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48	8	6	-18; -12; -6; 0; +6
48	12	10	-40; -30; -20; -10; 0; +10

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