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INTERSTATE COUNCIL FOR STANDARDIZATION, METROLOGY AND CERTIFICATION
(ISC,

**18482—
2018**



1.0—2015 «
 1.2—2015 «
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 (« »)
 2 297 «
 3 30 2018 . Np 108-)

MK { 3166) 004-97	(3166) 004-67	
	BY KZ KG RU UZ	

4 2018 . 643- 1 18482—2018 25
 2019 .

5 18482—79

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(www.gost.fu)

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9	, , ()	17
	1 18

VA^v

Aluminium and aluminium alloy extruded tubes. Specifications

— 2019—03—01

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9.510—93

12.1.005—88

12.1.007—76

12.4.021—75

12.4.253—2013 (EN 166:2002)

427—75

1131—76

3221—85

4784—97

5009—82

6456—82

6507—90

7502—98

7661—67

7727—81

10006—80 (6892—84)

11069—2001

11739.1—90

11739.2—90

11739.3—99

18482—2018

11739.4—90	.	*
11739.S—90	.	-
11739.6—99	.	-
11739.7—99	.	
11739.8—90	.	
11739.9—90	.	-
11739.10—90	.	-
11739.11—98	.	
11739.12—98	.	
11739.13—98	.	
11739.14—99	.	
11739.15—99	.	-
11739.16—90	.	-
11739.17—90	.	
11739.18—90	.	
11739.19—90	.	
11739.20—99	.	-
11739.21—90	.	
11739.22—90	.	
11739.23—99	.	
11739.24—98	.	
12697.1—77	.	
12697.2—77	.	
12697.3—77	.	
12697.4—77	.	
12697.5—77	.	
12697.6—77	.	
12697.7—77	.	
12697.8—77	.	
12697.9—77	.	
12697.10—77	.	
12697.11—77	.	
12697.12—77	.	
14192—96		
14838—78		-

16504—81

19300—86

24047—80

24231—80

24642—81*

25086—2011

26877—2008

27637—88

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16504. 26877, 24642.

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53442—2015 (01101:2012) «

18482—2018

		1955		18	50	
1.5	10,0	.				
	5.3					,
	5.4	3.				-
			,		1.2	3.
	5.5		,			-
	.					
	5.6		1	6		
	—				6	.

*) * » , * . »

	«	1.5 650	2.0 040	25 040	10 0.40	35 0.40	40 045	50 050	. 0.60	70 0.70	7.6 075	5.0 090	100 1	125 12	150 1.4	17.5 16	200 1.6	22.5 1»	25.0	271 22	30.0 24	325 26	35.0 26	375 26	40.0 30
18	±0.5	0222																							
20		0248	0.322	0.392																					
22		0275	0.358	0436	0.510	0580																			
25		0216	0.412	0504	0.591	0674	0.752	0.895	1021																
28		03S6	0.466	0571	0.671	0,768	0659	1.030	1.182																
%		0683	0.501	0615	0.725	0630	0931	1.119	1289	1.441	1.511														
32		0.410	0.537	0660	0.779	0693	1.003	1.209	1697	1.567	164\$	1.719													
35		0.450	0.591	0.727	0.859	0.987	1.110	1.343	1558	1.755	1647	1934	2,238												
38		0.480	0.645	0.795	0.940	1.081	1218	1.477	1.719	1.943	2.048	2.149	2.507												
4)		0517	0.680	0639	0.994	1.144	1289	1.567	1626	2068	2.182	2292	2.686	3.078											
42		0544	0.716	0684	1.047	1206	1661	1.656	1.934	2194	2617	2.435	2.865	3602											
45		0584	0.770	0.951	1.128	1600	1.468	1.791	2.095	2382	2518	2.650	3.134	3.637	4.G29										
48		0.624	0.824	1.018	1.209	1694	1576	1.925	2256	2570	2.719	2665	3.402	3973	4.432										
50		0551	0.859	1.063	1.282	1.457	1.647	2.014	2664	2695	2654	3008	3.581	4.197	4.701	4.799									
52	±0.6	—	0.895	1.080	1.316	1520	1.719	2.104	2.471	2820	2.988	3.152	3.760	4.421	4.969	5.406									
55		—	0.949	1.175	1.397	1614	1626	2.239	2632	3.008	3.190	3666	4.029	4.756	5,372	5876									
58		—	1.003	1242	1,477	1.708	1934	2,373	2,793	3.196	3691	3581	4.298	5092	5.775	6646									
60		—	1.039	1287	1.531	1.771	2.006	2.462	2901	3.322	3525	3.725	4.477	5316	6.044	6.659									
65	±0.7	—	1.128	1699	1,655	1927	2.185	2.686	3.169	2635	3661	4.083	4,«4	5876	6.715	7643	8.058								
70		—	1.218	1511	1.800	2,084	2664	2.910	3.438	3.948	4.197	4.441	5.372	6.435	7,387	8226	8.953								

	. w m	:»-*:»»* wcca' « * w»u****t«M* >																						
rfcee	U»	101	2Si	»	3.3»	4.0»	\$ *	»	70»	7 \$ »	»	10.0»	12 5»	ISO»	17.5»	20.0»	225»	25.0»	27 \$ »	»	32.\$»	3\$0»	37,\$»	40.0 »
otxn	0.30	0.40	0.40	0.40	0.40	04\$	0.50	0.60	070	0.7\$	0.80	1.00	12	1.4	1	i.a	18	2	22	2.4	2.8	28	2.8	3.0
75	0.5		1623	1.934	2241	2543	3.134	3,707	4,252	4533	4,7»	\$,520	6995	5.0S5	0.009	9540	10576	11.192	11.596					
50			1.735	2.065	2397	2,722	3.355	3975	4.575	4563	5.157	6.267	7554	5.730	9.793	.744	11.554	12.311	12927					
55	±0.9		1547	2.203	2554	2901	3.551	4244	4.589	5204	5515	6.715	5.114	9.401	10.576	11.6»	12591	13.431	14.158					
90			1359	2337	2711	3.050	3.505	4513	5.202	5540	5573	7.163	5.674	10073	11360	12535	135»	14549	15359					
95	±1.0		2471	2367	32»	4.029	4.751	5.515	5376	6232	7,610	9233	10.744	1	2143	13.430	14,605	15.669	16,620	17,459	15.157			
100			2605	3.024	3.436	4,252	5.050	5.829	6.211	65»	5.058	9.793	11.414	12927	14326	15613	16.788	17 581	18.802	19.642				
105				3.181	3.617	4,477	5318	6 2	6547	6.948	8.506	10352	12.087	13.710	15221	16.620	17907	19.082	20.145	21097				
110				3337	3.7»	4.701	5587	6.455	6383	7306	8.953	10912	12.759	14.493	16.116	17.627	19.028	20313	21.488	22552	23.503	24342	25070	
115	±1.2				3975	4.924	5356	6.769	7219	7.664	9.401	11.472	13.430	15.277	17012	18634	20.145	21544	22.831	24.006	25.070	26.021	26360	
120					4.154	5.148	6.124	7.052	7554	5.022	9.849	12031	14.102	16060	17.907	19641	21265	22.755	24.174	25.461	26637	27.700	28.651	
125	±1.3						6393	7.396	7390	83»	102»	12591	14.773	16644	18302	20.649	22354	24.007	25.517	26916	26204	29379	30.442	
130							6.661	7.709	8226	8.7»	10.744	13.150	15.445	17.627	1969J	21656	23503	25238	26.860	28371	29.771	31.057	32233	
135	±1.4											11.192	13.710	16.116	18.411	20593	22.663	24.622	26.469	26203	29326	31.337	32.736	34.023
140												11.639	14270	16.788	19.194	21.488	23671	25.741	27.700	29.546	31281	32.904	34.415	35314
145	±1.5											12.087	14329	17.459	19.977	22384	24.678	26360	25931	30.589	32.736	34.471	36.094	37.605
150												12535	15359	18.131	20.781	23279	25.685	27.98t	30.162	32.233	34.191	36.0»	37.773	39395
155	±1.6											12.982	15.948	18302	21.544	24.174	26.633	29.099	31393	36577	35.646	37.605	»,451	41.156
160												13.4»	16508	19.474	22.328	23070	27.700	»218	32.624	34.919	37.101	39.172	41.130	42.977
165	±1.7											13378	17.065	20.145	23.111	25965	28.707	31337	33355	36.262	35556	40.7»	42309	44.767
170												14326	17367	20317	26595	26360	29.714	32456	35.067	37.605	40.011	42.305	44.485	46555

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«	15 030	20 0.40	25 0.40	3.0 X	3,3 X 0.40	40 0.43	3.0 X 0.60	. 060	lft	75 X 0.75	. 0.80	10.0 X 1.00	175 12	15.0 1,4	175 15	. 1.8	. 1.3	275 25	300 22	32.5 X 24	35.0 X 26	37.5 26	40 0 28	35 35
175 ±18												14.773	18.187	21.488	24878	27.756	30.722	33576	38.318	38948	41.466	43872	46.166	48.349
180												15221	18,746	22.16	25.461	28,651	31.729	34,695	37.549	40291	42.921	45.435	47845	50.140
185 ±19												1586919806		22.831	26 245	29.546	32.736	35914	38.780	41834	44.376	47806	49524	51.930
190												16.116	19866	23.502	27926	30.442	33.435	36933	40.011	42977	45.831	48573	51203	53.721
195 ±2.0												16564	20425	24.174	27912	31.337	34.751	38852	41.242	44220	47.286	50.140	52882	55.512
200												17912	20985	24.846	28595	32.233	35,756	39.172	42.473	45863	48.741	51.706	54560	57.302
210 ±22												17907	22.104	26.189	30.162	34.023	37.773	41.410	44.935	48849	51.651	54840	57.916	60.884
220												18802	23223	27.532	31.729	35.814	39.787	43.648	47.396	51.035	54,560	57 974	61276	64.465
230 ±25												19898	24 842	28.875	33296	37.605	41802	45887	49.860	53.721	57.470	61.106	64,633	68.047
240												20593	25.461	30.218	34863	39.394	43916	48.185	52.322	56.407	6 .38	64241	6799,	71.628
250												21488	2558,	31.56,	36.430	41,186	4583,	50863	54.784	59.093	63.290	67 375	71848	75.209
260 ±29												22888	27,700	32.904	37 996	42.977	47845	52802	57.246	61.779	66.220	70509	74.706	78.791
270												23279	28919	34.247	39563	44.767	49860	54840	59.709	64465	69.11	73843	78.063	82.372
280												24.174	29938	35.990	41.130	46.558	51874	57.079	62.171	67.151	72. 2	76,776	81421	85.954
290														36.933	42.697	48.349	53889	59317	64.633	69838	74,930	79.911	84,779	89.536
300														38.276	44 264	50.140	55903	61555	67.095	72523	77.839	83.044	88.136	93.116

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31

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		1.5 0,30	2,0 10.30	2.610.30	3.01 0.30
12	±0.40	0.141	0.179	—	—
13		0.154	0.197	0,235	—
14		0.168	0.215	0,257	0.295
16		—	0.251	0.302	0.349
18		—	0.286	0.347	0,403
20		—	0,322	0.392	0,457
22	+ 0.40 -0.60	—	0.358	0.436	0,510
24		—	0.394	0.481	0.564
26		—	0.430	0.526	0,616
28		—	0.466	0.571	0.671
30		—	0.501	0.615	0.725

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		«	
7. 6. 5. . . 1. 1915, 1925. 1955. 6. 31. 2. 1		18	1.5
		25	2.5
	5	28	3.0
	1. 16. B9S	25	5.0
31. 35. . 6. 1915. 1925		18	1.5
	1925	30	3.0
	1. 16	25	5.0
		25	3.0
	31. 35	20	2.0
	6. 95	25	5.0
		25	2.5
	5	28	3.0

5.6.1

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1955

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		1.5 ±0.30	2.0 1 0.30	2.5 ±0.30	3.0 ±0,30
12	±0.40	280	275	—	—
13		260	250	210	—
14		240	230	190	165
16		—	200	165	140
18		—	180	145	125
20		—	160	125	110
22	0.40 -0.60	—	140	115	100
24		—	135	105	90
26		—	115	95	80
28		—	105	85	75
30		—	100	80	70

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6.1						-
6.1.1				7. 6. 5		11069.
		1.				2,
	5.	31,	35,	1. 16. 6. 95,1915.1925, 1925		-
	4784,			1	1131	-
	1955			*		-
6.2					5.	-
6.3		()		-
						-
6.3.1				:		-
-						-
-						-
-						-
-						-
6.3.2						-
-						-
-						-
-						-
-			100			-
-						-
-						-
-						-

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				{ / ²}	/ ²}	
7. 6. 5.				60(6)	—	20
1. ,				100(10)	—	12
2				155(16)	60(6)	10
			2.5 40.0	180(18)	70(7)	15
5			2.5 40,0	255(26)	110(11)	15
			2.5 40.0	315(32)	145(15)	15

*

5

				(kic/mm ²)	⁰² (⁰² . ²)	*
						6. %
31				130(13)	60(6)	12
			2.0 40.0	180(18.5)	120(12)	10
35				200(20.0)	100(10)	14
			2.0 40.0	270(27.5)	200(20.5)	10
				210(21)	110(11)	14
			3.0 40.0	310(31.5)	225(23)	8
1			5.0 20.0	355(36)	195(20)	12
			. 20.0 40.0	375(38)	215(22)	10
			5.0 20.0	355(36)	195(20)	12
			. 20.0 40.0	375(38)	215(22)	10
16			5.0 20.0	390(40)	255(26)	12
			. 20.0 40.0	420(43)	275(28)	10
			5.0 20.0	390(40)	255(26)	12
			. 20.0 40.0	420(43)	275(28)	10

				-	2-	*
				{* 2>	(2- 2)	.%
			5.0 40.0	355(36)	—	10
			5.0	285(29)	—	8
			. 5.0 40.0	315(32)	—	10
			5,0 40,0	355(36)	—	10
95			5.0 20.0	490(50)	375(38)	7
			. 20.0 40.0	510(52)	400(41)	5
			5.0 20.0	490(50)	375(38)	7
			. 20.0 40.0	510(52)	400(41)	5
1915		30—35		315(32)	195(20)	10
				265(27)	155(16)	10
		2—4		355(36)	215(22)	10
		30—35		275(28)	165(17)	10
		2—4				
1925		30—35		310(31.5)	200(20.5)	10

5

				-	^{0 2}	*
				(kic/mm ²)	(kic.'mm ²)	6. %
1925		-		335(34)	195(20)	10
		30—35		245(25)	145(15)	10
		-		335(34)	195(20)	10
		2—4		255(26)	155(16)	10
1955		-	Or 1.5 10,0	333(34)	196(20)	10
		90		235(24)	147(15)	10
1		-	5	335(34)	—	10
		2—4	. 5.0 20,0	345(35)	—	8
			. 20.0 40.0	355(36)	—	8

2

15 %.

6.4

6.5

6.5.1

100

10

6.6

6.6.1 , 20 — 1 , ;
 - 20 — 2 .
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 6.8 .
 . 6. 5.0 7. 6. 5. 00. ,
 1. , 1 . , 5 2

	1	0.4	
120 8 .	3	1.5	1 .
.120 150 .	4	1.8	
.150 300 .	5	2.0	

6.9 , 5 . , , , .
 6.10 :
 - 0.5 , 3 . ;
 • 5 0.5
 5 0,1
 6.10.1 , -
 . , -
 6.10.2 (,), -
 , -
 6.11 , , .
7
 7.1 . , , , -
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 - ;
 -) ;
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7.2

7.3

5 %

0.4

7.4

5 %

7.5

2 %

7.6

5.

1955

35. 95 1925

31. 1. 16, 6 95
6. 1. 16.1915 1925

7. 6. 5. 00. 1, . -

2. 31.1915.1925. 1

1955

1915 1925

2—4

— 30—35

7.6.1

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7. 6.

5. 00. 0. 1

1955.

7.7

1 %

7.8

7.9

1 %

7.10

7.11

7.2—7.9.

8

8.1

24231.

12.1.005.

12.1.007.

12.4.253.

12.4.021

18482—2018

					25086.	11739.1 —	3221.	11739.24	25086.
	12697.1 —	12697.12							-
	7727.								
8.2									6507
						7502			427.
8.3									-
1	427						*		-
					26877.				-
8.4									-
100								19300	-
	7661.								-
8.4.1						6-		5009.	-
									-
8.5		10-					6456.		-
	I_0 .					10006			-
					$I_0 = 5.65^{\wedge}$,				(1)
F_0 —							, 2.		
									24047
10006.									-
8.6									-
)								-
8.7									-
27637									-
8.8									0.5%-
	25 ³				(0.5		10 ³	-
	100 ³					1.84 / ³		1.84 / ³	-
					10—15				-

9	,	,							
9.1		60					9.510.		
				-					:
				60					-
9.1.1	,								-
			14838.						
9.2									-
9.510.							14192		:
-									
-	:								
-	:								
-	:								
•	.								
9.2.1	,								-
									-

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1

:				-0.950
				-0.958
»	»	»		-0.958
»	»	»	31	-0.950
»	»	»	35	-0.948
»	»	»	2	-0.940
»	»	»		-0.937
»		»		-0.937
»		»	5	-0.930
»		»		-0.926
»		»		-0.947
»			1	-0.982
»	»		16	-0.976
»		>	6	-0.964
	»	»	1915	-0.972
»		»	1925	-0.972
»	»	»	1925	-0.972
»	»	»	1955	-0.972
»	»	»	1	-0.982

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28.09.2018. 12 10.2018 60«84' .
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