

STANDARD/SPECIFICATION

NUMBER

GOST 7417-75

ROUND SIZED STEEL.

SUPERSEDES

GOST 7417-57

ASSORTMENT

1. SHT

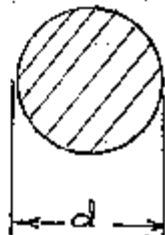
OF 7

1. This standard pertains to sized cold-drawn or cold-rolled steel of round section having diameter from 3 to 100 mm

Requirements of SEV recommendations as per standard RS 950-67 are considered in this standard.

2. Diameters of steel and tolerances on them, depending on the class of accuracy, should correspond to the data given in the figure and table 1.

Figure



ROUND SIZED STEEL.
ASSORTMENT

Table I

Dia- meter of steel d, mm	Tolerances, in mm, for steel for class of accuracy				Cross sect- ional area in mm ²	Weight of 1 meter len- gth, in kg.
	3	3a	4	5		
1	2	3	4	5	6	7
3.0	-0.020	-0.040	-0.060	-0.120	7.07	0.056
3.2					7.55	0.059
3.3					8.04	0.063
3.4					8.55	0.067
3.5					9.08	0.071
3.6					9.62	0.076
3.7					10.18	0.080
3.8					10.75	0.084
3.9					11.34	0.089
4.0					11.95	0.094
4.1	-0.025	-0.048	-0.080	-0.160	12.56	0.099
4.2					13.20	0.104
4.4					13.85	0.109
4.5					15.21	0.119
4.6					15.90	0.125
4.8					16.62	0.130
4.9					18.10	0.142
5.0					18.86	0.148
5.2					19.63	0.154
5.3					21.24	0.167
5.5					22.06	0.173
5.6					23.76	0.186
5.8					24.63	0.193
6.0					26.42	0.207
6.1					28.27	0.222
6.3					29.22	0.229
6.5					31.17	0.245
6.7					33.17	0.260
6.9					35.26	0.277
7.0					37.39	0.294
7.1					38.48	0.302
7.3					39.59	0.311
7.5					41.85	0.329
7.7					44.18	0.347
7.8	-0.030	-0.058	-0.100	-0.200	46.57	0.366
8.0					47.78	0.375
8.2					50.27	0.395
8.5					52.81	0.415
8.8					56.75	0.445
9.0					60.82	0.477
					63.62	0.500

ROUND SIZED STEEL
ASSORTMENT

Table-1 (Contd.)

1	2	3	4	5	6	7
9.2					66.48	0.522
9.3					67.93	0.533
9.5					70.88	0.556
9.8					75.43	0.592
10.0					78.54	0.616
10.2					81.71	0.640
10.5			-0.120	-0.240	86.09	0.680
10.8					91.61	0.719
11.0					95.03	0.746
11.2					98.52	0.773
11.5					103.90	0.815
11.8					109.36	0.858
12.0					113.10	0.890
12.2					116.90	0.918
12.5					122.72	0.953
12.8					128.68	1.010
13.0					132.70	1.042
13.2					136.85	1.074
13.5					143.14	1.124
13.8					149.57	1.174
14.0	-0.035	-0.070	-0.120	-0.240	153.90	1.208
14.2					158.37	1.243
14.5					165.13	1.296
14.8					172.03	1.350
15.0					176.7	1.387
15.2					181.5	1.42
15.5					188.7	1.48
15.8					196.1	1.54
16.0					201.1	1.58
16.2					206.1	1.62
16.5					213.8	1.68
16.8					221.7	1.74
17.0					227.0	1.78
17.2					232.3	1.82
17.5					240.5	1.89
17.8					243.2	1.91
18.0					248.8	1.95
18.5					254.5	2.03
18.5					268.8	2.11
19.0					283.5	2.23
19.5					298.6	2.34
20.0					314.2	2.47
20.5					330.1	2.59
21.0					346.4	2.72
21.5					363.1	2.85
22.0	-0.045	-0.084	-0.140	-0.280	380.1	2.98
23.0					415.5	3.26
24.0					452.4	3.55
25.0					490.9	3.85
26.0					530.9	4.17

Table 1 Contd.

1	2	3	4	5	6	7
27.0					572.6	4.49
28.0					615.7	4.83
29.0					660.5	5.18
30.0					706.9	5.55
31.0					754.8	5.95
32.0					804.2	6.31
33.0					855.3	6.71
34.0					907.9	7.13
35.0	-0.050	-0.100	-0.170	-0.340	962.1	7.55
36.0					1018	7.99
37.0					1075	8.44
38.0					1134	8.90
39.0					1195	9.38
40.0					1257	9.86
41.0					1320	10.36
42.0					1385	10.87
44.0					1521	11.94
45.0					1590	12.48
46.0					1662	13.05
48.0					1810	14.21
49.0					1886	14.80
50.0					1963	15.41
52.0					2124	16.67
53.0					2206	17.32
55.0					2376	18.65
56.0					2463	19.35
58.0	-0.060	-0.120			2622	20.64
60.0					2827	22.19
61.0					2922	22.94
62.0					3019	23.70
63.0					3117	24.47
65.0				-0.200 -0.400	3317	26.04
67.0					3526	27.68
69.0					3739	29.33
70.0					3848	30.21
71.0					3959	31.08
73.0					4185	32.85
75.0					4418	34.61
78.0					4778	37.51
80.0					5027	39.46
82.0					5281	41.45
85.0					5674	44.54
88.0					6082	47.74
90.0					6362	49.94
92.0				-0.250 -0.460	6648	52.19
95.0					7088	55.64
98.0					7543	59.21
100.0					7854	61.65

IAL(NK)	<u>ROUND SIZED STEEL.</u> <u>ASSORTMENT</u>	GOST 7417-75	
		Page No	No. of pages
		6	7

On customer's request steel of diameter upto 25mm inclusively should be produced in the form of rolls. With customer's approval together with manufacturer, steel of diameter above 25 mm may be produced in the form of rolls.

5. Depending on the purpose, the rods are produced as follows:
with uniform length:

with uniform length with remainder upto 15% of the batch weight;

with short uniform length with remainder upto 15% of batch weight;

with non-uniform length;

with limited length in the range of non-uniform length.

Rods having length not less than 1.5 m. from quality carbon, free-cutting, low-alloy, alloy steels and not less than 1 m from high-alloy steel are considered as the remainder.

6. The rods are fabricated with length:

from 2 to 6.5 m. from quality carbon, free cutting, low alloy and alloy steels.

from 1.5 to 6.5 m from high-alloy steel

It is allowed to fabricate rods of larger length by mutual agreement between manufacturer and customer.

7. In case of supply of rods having non-uniform length, presence of rods having length not less than 1.5 m from quality carbon, free cutting, low-alloy and alloy steel and not less than 1 m from high-alloy steel in quantity not exceeding 10% of the batch weight is allowed.

8. By mutual agreement between manufacturer and customer it is allowed to supply quality carbon free cutting, low-alloy and high-alloy steel with length not less than 0.5 m for fabricating fine articles.

9. Tolerance on length of rods of uniform or short uniform length should not exceed.

+ 30 mm - for length of rods upto 4 m;

+ 50 mm - for length of rods above 4 m.

By mutual agreement between manufacturer and customer it is allowed to supply bars of uniform or short uniform length with tolerance + 50mm if length of rods is upto 4 m inclusively.

10. Curvature of rods, depending on the class of accuracy, should not exceed the values given in table 1.

Table 1

Dia meter in mm	Maximum curvature depending on class of accuracy.					
	for 1 m length, in mm			for full length, in %		
	3	3a & 4	5	3	3a & 4	5
upto 25	1.00	2.00	3.00	0.10	0.20	0.30
above 25 to 50	0.75	1.00	2.00	0.075	0.10	0.20
above 50	0.50	1.00	1.00	0.050	0.10	0.10

By mutual agreement between manufacturer and customer, the value of maximum curvature may be decreased.

11. Cutting of rods should be done at right angle to its longitudinal axis.

Permissible obliquity of the cut should not exceed:

0.2 d - for rods of diameter upto 15 mm;

3 mm - for rods of diameter above 15 upto 30 mm;

5 mm - for rods of diameter above 30 mm

12. Grades of steel and technical requirements are established by the respective standards.

.....

Other Standards referred to in this standard:-

GOST 10702-62

GOST 1051-73
