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International Standard



1035/1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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**Hot-rolled steel bars —  
Part 1 : Dimensions of round bars**

*Barres en acier laminées à chaud —  
Partie 1 : Dimensions des barres rondes*

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**Descriptors** : metal products, iron and steel products, hot rolled products, steel products, metal bars, round bars, dimensions.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 1035/1 was developed by Technical Committee ISO/TC 17, *Steel*, and was circulated to the member bodies in December 1978.

It has been approved by the member bodies of the following countries :

Australia	Hungary	South Africa, Rep. of
Belgium	India	Spain
Bulgaria	Italy	Sweden
Canada	Japan	Switzerland
Czechoslovakia	Korea, Dem. P. Rep. of	Thailand
Denmark	Korea, Rep. of	Turkey
Egypt, Arab Rep. of	Netherlands	United Kingdom
Finland	New Zealand	USSR
France	Poland	
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The member bodies of the following countries expressed disapproval of the document on technical grounds :

Australia  
USA

This International Standard cancels and replaces ISO Recommendation R 1035/1-1969, of which it constitutes a technical revision.

# Hot-rolled steel bars — Part 1 : Dimensions of round bars

## 1 Scope and field of application

This International Standard specifies dimensions of metric series hot-rolled steel round bars.

## 2 Reference

ISO 1035/4, *Hot-rolled steel bars — Part 4 : Tolerances of round, square and flat bars — Metric series.*

## 3 Dimensions and tolerances

3.1 The dimensions of round bars are given in the table.

3.2 Unless otherwise specified in the order, the tolerances on the dimensions of round bars shall be the normal tolerances specified in ISO 1035/4. Tolerances tighter than those specified in ISO 1035/4 will form the subject of a future International Standard.

Table — Diameters, sectional areas and masses per unit length

Preferred sizes			Second-preference sizes		
Diameter	Sectional area	Mass <sup>1)</sup> per unit length	Diameter	Sectional area	Mass <sup>1)</sup> per unit length
mm	cm <sup>2</sup>	kg/m	mm	cm <sup>2</sup>	kg/m
8	0,503	0,395	15	1,77	1,39
10	0,785	0,617	17	2,27	1,78
12	1,13	0,888	19	2,84	2,23
14	1,54	1,21	21	3,46	2,72
16	2,01	1,58	23	4,15	3,26
18	2,54	2	24	4,52	3,55
20	3,14	2,47	26	5,31	4,17
22	3,80	2,98	27	5,73	4,49
25	4,91	3,85	34	9,08	7,13
28	6,16	4,83	36	10,2	7,99
30	7,07	5,55	38	11,3	8,9
32	8,04	6,31	42	13,9	10,9
35	9,62	7,55	47	17,3	13,6
40	12,6	9,85	48	18,1	14,2
45	15,9	12,5	52	21,2	16,7
50	19,6	15,4	63	31,2	24,5
55	23,8	18,7	85	56,7	44,5
60	28,3	22,2	95	70,9	55,6
65	33,2	26	130	133	104
70	38,5	30,2	150	177	139
75	44,2	34,7	170	227	178
80	50,3	39,5	190	284	223
90	63,6	49,9	220	380	298
100	78,5	61,7			
110	95,0	74,6			
120	113	88,8			
140	154	121			
160	201	158			
180	254	200			
200	314	247			

1) The values of mass are based on a density of steel of 7,85 kg/dm<sup>3</sup>.