

DRAFT ZANZIBAR NATIONAL STANDARD

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

ZANZIBAR BUREAU OF STANDARDS

National Foreword

This draft Zanzibar National standard has been prepared by the Mechanical and Automotive Standard Technical committee. In accordance with ZBS general procedures, this draft standard is presented to the public in order to receive any technical comment concerns.

Technical Committee Representatives

This Draft Zanzibar National Standard was prepared by Mechanical and Automotive Standard Technical committee which consists of representatives from the following organizations:

Buda Auto Parts
Department of Environment Zanzibar (DoE)
Government Agency for Automobile Workshop Services (GAAWS)
Karume Institute of Science and Technology (KIST)
Zanzibar Road Transport and Safety Authority (ZARTSA)
Zanzibar Utilities Regulatory Authority (ZURA),
Zanzibar Electricity Corporation (ZECO)
Zanzibar Bureau of Standards (ZBS) - Secretariat

Zanzibar Bureau of Standard (ZBS)
P O Box 1136
Zanzibar
Tel: +255 24 2232225
Fax: +255 24 2232225
E-mail: info@zbs.go.tz
Web: www.zbs.go.tz

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

1 Scope

This Zanzibar Standard specifies dimensions of metric series hot-rolled steel round bars intended for general purposes

2 Normative references

ISO 1035-4, Hot-rolled steel bar - Part 4: Tolerances of round, Square and flat Bars - Metric series.

3 Terms and definitions

No terms and definitions are listed in this document

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <http://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org>

4 Dimensions and tolerances

4.1 The dimensions of flat round are given in the table

4.2 Unless otherwise specified in the Order, the tolerances on the dimensions of flat 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 Standard.

Table – Diameters, sectional areas and masses per unit length

Preferred sizes			Second – preference sizes		
Diameter (mm)	Sectional area (cm ²)	Mass ¹⁾ per unit length (kg/m)	Diameter (mm)	Sectional area (cm ²)	Mass ¹⁾ per unit length (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	-	-	-
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1) The values of mass are based on a density of steel of 7.85kg/dm³

DRAFT STANDARD FOR PUBLIC COMMENTS