

Bars and tubes in bronzealloys

EN 1982: Gunmetal Bronze Leadbronze

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Alloy EN 1982	No.	Casting methode and alloy description	Tensile strength	0,2 % proof stress	Elongation	Brinellhardness	Surface pressure
			<i>R_m</i> Min. N/mm ²	<i>R_{p0,2}</i> Min. N/mm ²	<i>A5</i> Min. %	<i>HB</i> Min.	<i>P max.</i> N/cm ²
CuSn7Zn4Pb7-C-GC	CC493K	Continuous cast gunmetal Rg 7	260	120	12	70	6000
CuSn7Zn4Pb7-C-GZ		Centrifugal cast gunmetal Rg 7	260	120	12	70	
CuSn12-C-GC	CC483K	Continuous cast Bronze	300	150	6	90	7500
CuSn12-C-GZ		Centrifugal cast Bronze	280	150	5	90	
CuSn12Ni2-C-GC	CC484K	Continuous cast Bronze Ni2	300	180	8	95	12000
CuSn12Ni2-C-GZ		Centrifugal cast Bronze Ni2	300	180	10	95	
CuSn10Pb10-C-GC	CC495K	Continuous cast Lead Bronze	220	110	8	70	6000
CuSn10Pb10-C-GZ		Centrifugal cast Lead Bronze	220	110	6	70	
CuSn7Pb15-C-GC	CC496K	Continuous cast Lead Bronze	200	90	8	65	4000
CuSn7Pb15-C-GZ		Centrifugal cast Lead Bronze	200	90	7	65	

Aluminiumbronze: Continuous cast, extruded or with drawn tol. h11

- ▶ Rund bars - R740S Tol. h11 blank drawn EN 12163 page 8
- ▶ Rund bars - extruded EN 12163/12165 page 8
- ▶ Rund bars - continuous cast EN 1982 page 8
- ▶ Flat bars - continuous cast EN 1982 page 8
- ▶ Tubes - continuous cast EN 1982 page 9

Alloys AluminiumBronze	No.	Casting methode and alloy description	Tensile strength	0,2 % proof stress	Elongation	Brinellhardness
			<i>R_m</i> Min. N/mm ²	<i>P_{p0,2}</i> Min. N/mm ²	<i>A</i> Min. %	<i>HB</i> Min.
Cu Al10Fe5Ni5-C-GC	CC333G	Continuous cast AluBz	650	280	13	150
Cu Al10Fe5Ni5-C-GZ		Centrifugal cast AluBz	650	280	13	150
CuAl10Ni5Fe4, R680 S	CW307G	Drawn h11 tol. after EN 12163	680	Appx. 480	10	170
CuAl10Ni5Fe4, R740 S	CW307G	Drawn h11 tol. after EN 12163	740	Appx. 530	8	180
CuAl10Ni5Fe4	CW307G M	Toleranceclass A after EN 12163 / 12165	Appx. 640	Appx. 270	Appx. 15	Appx. 170
CuAl11Ni6Fe6, R750 S	CW308G	Drawn h11 tol. EN 12163 / 12167	750	Ca. 450	Min. 10	190-235
Cu Al11Ni6Fe6-C-GC	CC334G	Continuous cast AluBz	680	320	5	170
Cu Al11Ni6Fe6-C-GZ		Centrifugal cast AluBz	750	380	5	185

EN 1982: GUNMETAL BRONZE LEADBRONZE



Round Bars

The weights are theoretically calculated



Continuous cast round bars

With 1 mm machining allowance. Casting allowance (tol. +0,6; - 0 mm).

Standard length 3000 mm - 2000 - 1000 mm

Delivered dim. mm Ø	For final measure mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7-C-GC	CuSn12-C-GC	CuSn12-Ni2-C-GC	CuSn10Pb10-C-GC	CuSn7Pb15-C-GC
13	12	1,2	✓	✓	-	-	✓
16	15	1,8	✓	✓	-	-	✓
19	18	2,5	✓	✓	-	-	✓
21	20	3,1	✓	✓	-	-	✓
23	22	3,7	✓	✓	-	-	-
27	25	5,0	✓	✓	-	✓	✓
32	30	7,0	✓	✓	✓	✓	✓
37	35	9,4	✓	✓	-	-	✓
42	40	12,1	✓	✓	✓	✓	✓
47	45	15,1	✓	✓	-	-	✓
52	50	18,5	✓	✓	✓	✓	✓
57	55	22,2	✓	✓	-	-	✓
62	60	26,3	✓	✓	✓	✓	✓
67	65	30,7	✓	✓	-	✓	-
72	70	35,4	✓	✓	✓	✓	✓
77	75	40,5	✓	✓	-	✓	-
82	80	45,9	✓	✓	✓	✓	✓
87	85	51,7	✓	✓	-	-	-
92	90	57,8	✓	✓	✓	✓	✓
97	95	64,3	✓	✓	-	-	-
102	100	71,1	✓	✓	✓	✓	✓
107	105	78,2	✓	✓	✓	-	-
112	110	85,7	✓	✓	✓	✓	✓
117	115	93,5	✓	✓	✓	-	-
122	120	101,7	✓	✓	✓	✓	✓
127	125	110,2	✓	✓	-	-	-
132	130	119,1	✓	✓	✓	✓	✓
142	140	137,8	✓	✓	✓	-	✓
152	150	157,9	✓	✓	✓	✓	✓
162	160	179,4	✓	✓	✓	✓	✓
172	170	207,0	✓	✓	-	✓	✓
187	180	239,0	✓	✓	✓	✓	✓
197	190	265,2	✓	✓	-	-	✓
207	200	292,8	✓	✓	✓	✓	✓
223	220	348,0	✓	✓	✓	-	✓
233	225	371,0	✓	✓	✓	✓	✓
252	250	444,0	✓	✓	✓	-	✓
257	250	451,3	✓	✓	✓	✓	✓
272	265	521,0	✓	✓	✓	✓	✓
307	300	644,0	✓	✓	✓	✓	✓
327	320	747,0	✓	✓	✓	✓	✓
357	350	870,9	✓	✓	✓	✓	✓
377	370	995,0	✓	✓	-	-	✓
407	400	1131,8	✓	✓	✓	✓	✓
457	450	1460,0	✓	✓	✓	✓	✓
468	460	1538,0	✓	✓	✓	✓	✓

Square bars



The weights are theoretically calculated

Continuous cast square bars

Standard length 3000 mm - 2000 - 1000 mm

Delivered dim. mm Ø	For final dim. mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7- C-GC	CuSn12- C-GC	CuSn7Pb15- C-GC	Delivered dim. mm Ø	For final dim. mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7- C-GC	CuSn12- C-GC	CuSn7Pb15- C-GC
22 x 22	20 x 20	4,3	✓	✓	-	92 x 92	90 x 90	75,3	✓	✓	-
32 x 32	30 x 30	9,1	✓	✓	-	102 x 102	100 x 100	92,6	✓	✓	-
42 x 42	40 x 40	15,7	✓	✓	-	112 x 112	110 x 110	111,6	✓	✓	-
52 x 52	50 x 50	24,1	✓	✓	-	124 x 124	120 x 120	136,8	✓	✓	-
62 x 62	60 x 60	34,2	✓	✓	-	212 x 212	210 x 210	400,0	✓	✓	-
72 x 72	70 x 70	46,1	✓	✓	-	262 x 262	260 x 260	611,0	✓	✓	-
82 x 82	80 x 80	59,8	✓	✓	-	315 x 315	310 x 310	890,0	✓	✓	✓

Hexagon rods



The weights are theoretically calculated

Continuous cast hexagon bars in Cu Sn7 Zn4 Pb7-C-GC

Standard length 3000 mm - 2000 - 1000 mm

Tolerance +0 - 0,3 mm.

Delivered dim. mm Ø	Teor. weight kg/m	Delivered dim. mm Ø	Teor. weight kg/m	Delivered dim. mm Ø	Teor. weight kg/m	Delivered dim. mm Ø	teor. vægt kg/m
19	3,0	27	6,0	42	14,0	55	24,0
22	4,0	32	8,0	46	16,5	65	33,0
24	4,5	36	10,0	50	19,5	80	50,0

Flat bars



The weights are theoretically calculated

Continuous cast flat bars

Standard length 3000 mm - 2000 - 1000 mm

Delivered dim. mm Ø	For final measure mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7- C-GC	CuSn12- C-GC	CuSn7Pb15- C-GC	Delivered dim. mm Ø	For final measure mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7- C-GC	CuSn12- C-GC	CuSn7Pb15- C-GC
63 x 13	60 x 10	7,5	✓	✓	-	133 x 32	130 x 30	38,0	✓	✓	-
23	20	13,0	✓	✓	-	143 x 13	140 x 10	17,0	✓	✓	-
62 x 42	40	23,5	✓	✓	-	15	12	19,5	✓	✓	-
67 x 32	65 x 30	19,5	✓	✓	-	19	16	24,5	✓	✓	-
73 x 13	70 x 10	8,5	✓	✓	-	23	20	29,5	✓	✓	-
19	16	12,5	✓	-	-	153 x 52	150 x 50	71,0	✓	✓	-
83 x 13	80 x 10	10,0	✓	✓	-	65	62	89,0	✓	✓	-
23	20	17,0	✓	✓	-	163 x 19	160 x 16	28,0	✓	✓	-
103 x 23	100 x 20	21,5	✓	✓	-	23	20	33,5	✓	✓	-
107 x 13	104 x 10	12,5	✓	✓	-	27	24	39,5	✓	✓	-
15	12	14,5	✓	✓	-	38	35	55,5	✓	✓	-
19	16	18,5	✓	✓	-	43	40	62,5	✓	✓	-
123 x 19	120 x 16	21,0	✓	✓	-	310 x 55	305 x 50	152,0	✓	✓	-
23	20	25,5	✓	✓	-	510 x 250		1135,0	✓	✓	✓
45	42	49,5	✓	✓	-						

Of dim. 510 x 250 x 3000mm we can short-term saw special dimensions in the following alloys:

Cu Sn7 Zn4 Pb7-C-GC, Cu Sn12-C-GC, Cu Sn12 Ni2-C-GC, Cu Sn11 Pb2-C-GC, Cu Sn10 Pb10-C-GC og Cu Sn7 Pb15-C-GC

EN 1982: GUNMETAL BRONZE LEADBRONZE



Tubes



The weights are theoretically calculated

Continuous cast tubes

With 1 mm machining allowance. Casting allowance (tol. +0,6; - 0 mm).

Standard length 3000 mm - 2000 - 1000 mm

Delivery dim. mm Ø	For final measure mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7-C-GC	CuSn12-C-GC	CuSn12-Ni2-C-GC	CuSn10Pb10-C-GC	CuSn7Pb15-C-GC
27 / 13	25 / 15	3,8	✓	-	-	-	-
32 / 13	30 / 15	5,8	✓	✓	-	✓	-
18	20	4,8	✓	✓	-	✓	-
37 / 13	35 / 15	8,2	✓	✓	-	-	-
18	20	7,1	✓	✓	-	✓	-
23	25	5,7	✓	✓	-	-	✓
42 / 13	40 / 15	10,9	✓	✓	-	-	✓
18	20	9,8	✓	✓	-	-	-
23	25	8,4	✓	✓	-	-	✓
28	30	6,7	✓	✓	-	-	✓
47 / 13	45 / 15	13,9	✓	✓	-	-	-
18	20	12,9	✓	-	-	✓	-
23	25	11,5	✓	✓	-	-	-
28	30	9,7	✓	-	-	✓	-
33	35	7,7	✓	✓	-	-	✓
52 / 13	50 / 15	17,3	✓	-	-	-	-
18	20	16,3	✓	✓	-	-	✓
23	25	14,9	✓	✓	✓	✓	-
28	30	13,1	✓	✓	-	-	-
33	35	11,0	✓	✓	-	-	-
38	40	8,6	✓	✓	✓	-	✓
57 / 18	55 / 20	20,0	✓	-	✓	-	-
23	25	18,6	✓	-	-	-	-
28	30	16,8	✓	-	-	✓	✓
33	35	14,8	✓	-	-	-	-
38	40	12,3	✓	-	-	-	-
43	45	9,6	✓	-	-	-	-
62 / 18	60 / 20	24,1	✓	✓	-	-	-
23	25	22,7	✓	✓	✓	-	✓
28	30	20,9	✓	✓	-	✓	-
33	35	18,8	✓	✓	-	-	-
38	40	16,4	✓	✓	-	-	✓
43	45	13,6	✓	✓	-	✓	-
48	50	10,5	✓	✓	✓	-	✓
67 / 18	65 / 20	28,5	✓	✓	-	-	-
23	25	27,1	✓	✓	-	✓	-
28	30	25,3	✓	-	-	-	-
33	35	23,2	✓	✓	-	-	-
38	40	20,8	✓	✓	-	-	-
43	45	18,0	✓	-	-	✓	-
48	50	14,9	✓	-	✓	-	✓
53	55	11,5	✓	-	-	-	-
72 / 18	70 / 20	33,2	✓	-	-	-	-
23	25	31,8	✓	✓	✓	-	✓
28	30	30,1	✓	✓	-	✓	-
33	35	28,0	✓	✓	-	-	✓
38	40	25,6	✓	✓	-	✓	-
43	45	22,8	✓	✓	-	-	✓
48	50	19,7	✓	✓	✓	-	-
53	55	16,2	✓	-	-	-	-
58	60	12,4	✓	✓	-	-	✓
77 / 23	75 / 25	36,9	✓	✓	-	-	-
28	30	35,2	✓	-	-	-	-
33	35	33,1	✓	✓	-	-	-
38	40	30,6	✓	✓	✓	-	-
43	45	27,9	✓	✓	-	-	✓
48	50	24,8	✓	✓	-	-	✓
53	55	21,3	✓	-	-	✓	-
58	60	17,5	✓	✓	✓	-	-
63	65	13,4	✓	-	-	-	-

EN 1982: GUNMETAL BRONZE LEADBRONZE



Tubes

The weights are theoretically calculated



Continuous cast tubes

With 1 mm machining allowance. Casting allowance (tol. +0,6; - 0 mm).

Standard length 3000 mm - 2000 - 1000 mm

Delivery dim. mm Ø	For final measure mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7-C-GC	CuSn12-C-GC	CuSn12-Ni2-C-GC	CuSn10Pb10-C-GC	CuSn7Pb15-C-GC
82 / 23	80 / 25	42,3	✓	✓	-	-	✓
28	30	40,6	✓	✓	✓	-	✓
33	35	38,5	✓	-	-	✓	-
38	40	36,1	✓	✓	-	✓	-
43	45	33,3	✓	-	✓	-	-
48	50	29,9	✓	✓	-	-	✓
53	55	26,8	✓	✓	-	✓	-
58	60	23,0	✓	✓	✓	-	✓
63	65	18,8	✓	✓	-	-	✓
68	70	14,3	✓	-	-	-	-
87 / 28	85 / 30	46,4	✓	✓	-	-	-
33	35	44,3	✓	-	-	✓	-
38	40	41,9	✓	-	✓	-	-
43	45	39,1	✓	✓	-	-	-
48	50	36,0	✓	✓	✓	-	-
53	55	32,5	✓	✓	-	-	✓
58	60	28,7	✓	✓	✓	-	-
63	65	24,6	✓	-	-	-	-
68	70	20,1	✓	-	-	-	-
73	75	15,3	✓	-	-	-	-
92 / 28	90 / 30	52,5	✓	✓	✓	-	✓
38	40	48,0	✓	✓	-	-	✓
43	45	45,2	✓	-	-	-	-
48	50	42,1	✓	✓	-	✓	✓
53	55	38,6	✓	✓	-	-	-
58	60	34,8	✓	✓	✓	-	-
63	65	30,7	✓	-	-	-	-
68	70	26,2	✓	✓	✓	✓	✓
73	75	21,4	✓	-	-	-	-
78	80	16,3	✓	✓	-	-	✓
97 / 43	95 / 45	52,8	✓	-	-	-	-
48	50	48,5	✓	✓	-	-	-
58	60	41,3	✓	-	-	-	-
63	65	37,2	✓	-	-	-	-
68	70	32,7	✓	-	-	✓	-
73	75	27,9	✓	-	-	-	-
78	80	22,7	✓	✓	-	-	-
102 / 28	100 / 30	65,7	✓	✓	✓	-	-
38	40	61,2	✓	✓	-	-	✓
43	45	58,5	✓	-	-	-	✓
48	50	55,3	✓	✓	✓	✓	-
58	60	48,1	✓	✓	-	-	✓
68	70	39,5	✓	✓	✓	✓	-
73	75	34,7	✓	-	-	-	-
78	80	29,5	✓	✓	-	-	-
107 / 48	105 / 50	62,5	✓	-	✓	-	-
68	70	46,6	✓	-	-	-	-
73	75	41,8	✓	✓	-	✓	-
78	80	36,7	✓	✓	-	-	-
88	90	25,3	✓	✓	-	-	-
112 / 38	110 / 40	75,8	✓	✓	-	-	-
48	50	70,0	✓	✓	✓	-	✓
58	60	62,7	✓	✓	-	✓	-
68	70	54,1	✓	✓	✓	-	-
73	75	49,3	✓	✓	-	-	-

EN 1982: GUNMETAL BRONZE LEADBRONZE



Tubes

The weights are theoretically calculated



Continuous cast tubes

With 1 mm machining allowance. Casting allowance (tol. +0,6; - 0 mm).

Standard length 3000 mm - 2000 - 1000 mm

Delivery dim. mm Ø	For final measure mm Ø	Teor. weight kg/m	CuSn7Zn4Pb7-C-GC	CuSn12-C-GC	CuSn12-Ni2-C-GC	CuSn10Pb10-C-GC	CuSn7Pb15-C-GC
112 / 78	110 / 80	44,1	✓	✓	✓	-	✓
83	85	38,6	✓	-	-	-	-
88	90	32,8	✓	✓	-	-	-
117 / 48	115 / 50	79,5	✓	-	-	-	-
73	75	57,1	✓	-	-	-	-
78	80	52,0	✓	✓	-	-	-
83	85	46,5	✓	-	-	-	✓
88	90	40,6	✓	-	-	-	-
93	95	34,4	✓	-	-	-	-
98	100	27,9	✓	-	-	-	-
122 / 48	120 / 50	86,0	✓	✓	-	-	-
58	60	78,7	✓	✓	✓	✓	-
68	70	70,1	✓	✓	-	-	✓
73	75	65,3	✓	-	✓	-	-
78	80	60,1	✓	✓	-	-	✓
83	85	54,6	✓	✓	-	-	-
88	90	48,8	✓	✓	✓	✓	-
93	95	42,6	✓	-	-	-	-
98	100	36,1	✓	✓	-	-	✓
127 / 53	125 / 55	99,0	-	-	-	✓	✓
63	65	83,1	✓	-	-	-	-
93	95	51,1	✓	✓	-	-	-
98	100	45,6	✓	✓	-	-	-
132 / 48	130 / 50	103,3	✓	✓	-	-	-
58	60	96,1	✓	✓	✓	✓	✓
63	65	91,9	✓	-	-	-	-
68	70	87,5	✓	✓	✓	-	✓
78	80	77,5	✓	✓	-	✓	-
88	90	66,1	✓	✓	✓	-	✓
93	95	60,0	✓	-	-	-	-
98	130 / 100	53,4	✓	✓	-	✓	✓
108	110	39,4	✓	-	-	-	-
137 / 78	135 / 80	90,6	-	-	-	✓	-
88	90	75,3	✓	✓	✓	-	✓
98	100	62,6	✓	-	-	✓	✓
108	110	48,6	✓	-	-	-	-
142 / 58	140 / 60	114,8	✓	✓	✓	-	-
68	70	106,2	✓	✓	-	✓	-
78	80	96,2	✓	✓	✓	-	✓
88	90	84,9	✓	✓	-	✓	-
98	100	72,2	✓	✓	✓	-	✓
108	110	58,1	✓	✓	-	-	-
118	120	42,6	✓	✓	-	-	✓
152 / 58	150 / 60	134,9	✓	✓	-	-	✓
68	70	126,3	✓	✓	✓	✓	-
78	80	116,3	✓	✓	-	-	-
88	90	105,0	✓	✓	-	-	✓
98	100	92,2	✓	✓	✓	-	✓
108	110	78,2	✓	✓	-	-	✓
118	120	62,7	✓	✓	✓	-	✓
157 / 98	155/100	112,0	-	-	-	✓	-
162 / 58	160 / 60	156,4	✓	✓	-	-	-
68	70	147,8	✓	✓	✓	-	✓
78	80	137,8	✓	✓	-	-	-
88	90	126,5	✓	✓	✓	-	✓
98	100	113,5	✓	✓	-	✓	✓
108	110	99,7	✓	✓	-	-	✓
118	120	84,2	✓	✓	✓	-	✓
128	130	67,4	✓	✓	-	-	-
138	140	49,3	✓	-	-	-	-

EN 1982: GUNMETAL BRONZE

Tubes from $\varnothing 172\text{mm}$

The weights are theoretically calculated



Continuous cast tubes

With 1 mm machining allowance. Casting allowance (tol. +0,6; - 0 mm).

Standard length 3000 mm - 2000 - 1000 mm

Delivery dim. mm \varnothing	For final measure mm \varnothing	Teor. weight kg/m	CuSn7Zn4Pb7-C-GC	CuSn12-C-GC	Delivery dim. mm \varnothing	For final measure mm \varnothing	Teor. weight kg/m	CuSn7Zn4Pb7-C-GC	CuSn12-C-GC
172 / 48	170 / 50	191,0	-	✓	242 / 118	240 / 120	313,0	✓	-
58	60	184,5	✓	-	138	140	277,0	✓	-
88	90	153,0	✓	✓	148	150	257,0	--	✓
98	100	140,0	✓	✓	158	160	235,0	✓	✓
108	110	126,0	✓	✓	188	190	163,0	✓	✓
118	120	110,0	✓	✓	198	200	136,0	✓	-
128	130	93,0	✓	--	252 / 158	250 / 160	270,0	✓	-
138	140	74,0	✓	✓	178	180	223,0	✓	✓
148	150	54,0	✓	✓	188	190	198,0	-	✓
182 / 98	182 / 100	165,0	✓	✓	198	200	170,0	✓	-
108	110	151,0	-	✓	208	210	142,0	✓	-
118	120	135,0	✓	✓	262 / 138	260 / 140	347,0	✓	-
128	130	118,0	✓	✓	178	180	259,0	✓	-
138	140	99,9	✓	-	188	190	233,0	✓	-
148	150	79,0	✓	✓	208	210	178,0	✓	-
158	160	58,0	✓	✓	218	220	148,0	✓	-
192 / 108	190 / 110	177,0	✓	-	272 / 128	270 / 130	403,0	-	✓
118	120	161,0	✓	✓	168	170	320,0	✓	-
128	130	144,0	✓	-	188	190	271,0	✓	-
138	140	127,0	-	✓	198	200	244,0	✓	-
148	150	105,0	✓	-	208	210	215,0	✓	-
158	160	84,0	✓	✓	218	220	185,0	✓	✓
168	170	60,5	✓	✓	282 / 178	280 / 180	335,0	✓	-
202 / 98	200 / 100	219,0	✓	✓	208	210	254,0	✓	-
118	120	188,0	✓	✓	218	220	224,0	✓	-
138	140	153,0	✓	✓	285 / 245	280 / 250	149,0	✓	-
148	150	133,0	✓	✓	292 / 208	290 / 210	294,0	✓	-
158	160	111,0	✓	✓	218	220	274,9	✓	-
168	170	88,0	✓	✓	304 / 146	300 / 150	497,0	✓	✓
178	180	64,0	✓	-	196	200	378,0	✓	✓
212 / 148	210 / 150	162,0	✓	-	246	250	223,0	✓	-
158	160	142,0	-	✓	305 / 246	300 / 250	223,0	-	✓
168	170	117,0	✓	✓	312 / 198	310 / 200	407,0	✓	-
178	180	93,0	✓	✓	332 / 273	330 / 275	250,0	✓	✓
218 / 132	215 / 134	211,0	-	✓	354 / 196	350 / 200	608,0	✓	✓
220 / 138	220 / 140	206,0	-	✓	246	250	453,0	✓	✓
222 / 98	220 / 100	278,0	✓	✓	296	300	264,0	✓	✓
118	120	248,0	✓	-	404 / 246	400 / 250	718,0	✓	-
148	150	192,0	✓	✓	296	300	529,0	✓	✓
158	160	170,0	✓	✓	346	350	305,0	✓	-
178	180	124,0	✓	✓	429 / 366	425 / 370	350,0	✓	✓
188	190	98,0	✓	-	454 / 356	450 / 360	555,0	✓	✓
227 / 198	225 / 200	87,0	✓	-	454 / 386	450 / 390	400,0	✓	✓
232 / 138	230 / 140	244,0	✓	✓	479 / 376	475 / 380	616,0	✓	✓
148	150	224,0	✓	-	479 / 406	475 / 410	452,0	✓	✓
168	170	179,0	✓	✓	504 / 396	500 / 400	679,0	✓	✓
178	180	155,0	✓	-	504 / 429	500 / 433	490,0	✓	✓
188	190	129,0	-	✓					

We can also deliver centrifugal cast bushings and rings, rough machined.

ALUMINIUMBRONZE BARS



The weights are theoretically calculated

Round bars in Cu Al 10 Ni 5 Fe 4 - CW 307G R740 S, EN 12163

Tolerance: h 11 drawn DIN 1756

Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m
8	0,40	20	2,40	31	5,80	50	15,00
10	0,60	21	2,60	32	6,10	55	18,10
12	0,85	22	2,90	35	7,40	56	18,80
14	1,20	23	3,15	36	7,75	60	21,60
15	1,30	25	3,80	38	8,60	65	25,00
16	1,60	28	4,70	40	9,60	70	29,30
17	1,73	29	5,00	41	10,00	72	31,00
18	1,95	30	5,40	45	12,00		

Round bars in Cu Al 10 Ni 5 Fe 4 - CW 307G M, EN 12163/12165

Tolerance class A. Over 80 mm tolerance after DIN 1782

Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m
17	1,73	37	8,20	64	24,45	107	68,34
20	2,40	40	10,00	67	27,00	112	75,00
21	2,70	42	10,60	72	31,00	117	81,60
22	2,90	47	13,20	77	35,50	122	89,00
25	3,80	51	15,53	82	40,50	132	104,00
27	4,40	52	16,20	87	45,50	142	120,50
28	4,70	57	19,40	92	50,50	152	138,00
32	6,10	58	20,08	97	56,50	162	157,00
36	8,20	62	23,00	102	62,50		

Round bars Cu Al 10 Fe 5 Ni 5 C-GC, EN 1982

CC333G-GC, continuous cast bars

* quality CC333G-G

Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m	Ø mm	Teor. weight kg/m
52	18,00	102	64,50	203	246,00	313	585,00
57	20,50	112	77,50	213	271,00	323	623,00
62	25,00	122	92,00	223	297,00	353*	743,80
67	29,00	132	107,50	233	324,50	403*	985,00
72	33,00	142	124,00	243	352,50	453*	127,00
77	37,50	152	141,50	253	382,50	508*	1541,00
82	42,50	162	160,50	263	413,00		
87	47,50	173	179,00	273	445,00		
92	53,00	183	200,00	283	478,50		
97	58,50	193	222,50	303	548,50		

Flat bars in Cu Al 10 Fe 5 Ni 5-C-GC, DIN EN 1982

CC333G-GC

* quality CC333G-G

Delivery dim. mm	Teor. weight kg/m	Delivery dim. mm	Teor. weight kg/m	Delivery dim. mm	Teor. weight kg/m	Delivery dim. mm	Teor. weight kg/m
313 x 13	31,00	313 x 53	127,00	313 x 93	222,00	225 x 225	385,00
313 x 23	55,00	313 x 63	150,00	313 x 103	246,00	270 x 125	257,00
313 x 33	79,00	313 x 73	174,00	152 x 152	177,00	400 x 400*	1216,00
313 x 43	103,00	313 x 83	197,00	202 x 152	234,00	940 x 235*	1700,00

EN 1982: ALUMINIUMBRONZE TUBES



The weights are theoretically calculated



Continuous cast tubes in Cu Al 10 Fe 5 Ni 5-C-GC, EN 1982

CC333G-GC

Delivery dim. mm Ø	Teor. Weight kg/m	Delivery dim. mm Ø	Teor. Weight kg/m	Delivery dim. mm Ø	Teor. Weight kg/m
33 / 18	4,5	87 / 58	25,5	142 / 68	93,0
37 / 18	6,5	63	21,5	78	85,0
42 / 18	9,0	68	18,0	88	74,0
23	7,5	92 / 38	42,0	98	64,0
28	6,0	48	37,0	108	51,0
47 / 23	10,5	58	30,5	118	38,0
28	9,0	68	23,0	152 / 78	103,0
52 / 18	14,5	78	14,5	88	113,0
23	13,0	97 / 48	42,5	98	87,0
28	11,5	68	29,0	108	69,0
38	7,5	78	20,0	118	55,0
57 / 28	15,0	102 / 38	54,0	162 / 98	100,0
62 / 28	18,5	48	48,5	118	72,0
38	14,5	58	42,5	128	59,0
48	9,5	68	34,5	172 / 78	140,3
67 / 28	22,5	78	26,0	108	107,0
38	18,5	112 / 38	66,0	118	94,0
43	16,5	48	62,0	182 / 98	141,0
72 / 28	26,5	58	55,0	108	128,2
38	22,5	68	48,5	128	100,0
48	17,5	78	39,0	202 / 138	130,0
58	11,0	88	29,0	148	113,0
77 / 33	29,0	122 / 48	76,0	222 / 118	211,2
43	24,5	58	69,0	252 / 168	210,7
48	22,0	68	62,0		
53	19,0	78	53,0		
58	15,5	88	43,0		
82 / 28	35,5	98	32,0		
38	32,0	132 / 68	77,0		
48	26,5	78	68,0		
58	20,5	88	58,0		
68	13,0	98	47,0		
87 / 48	31,5	108	35,0		

We can also deliver centrifugal cast bushings and rings, rough machined.