



PRODUCT CATALOGUE





ABOUT US

Truva Brass Rod & Billet is a brass manufacturing Company located in Istanbul/Türkiye and produces different brass products such as brass bar, hexagon, tube, billet, wire, and special profiles.

All products are available in a wide variety of alloys and in full compliance with European and international standards, as well as in line with customer requests.

We produce Brass Rods and Billet in our factory in Esenyurt/Istanbul, with a monthly production capacity of 1500 tons, with a product range of:

- Brass Billets
- Brass Extruded Rods
- Brass Cold Drawn Rods
- Brass Hollow Rods
- Brass Cold Drawn Coils
- Brass Wires
- Brass Special Profiles

MISSION

Our mission is to be the leader in the sector for production of brass billet, brass rod, brass wire, brass hollow rods, and special profiles by focusing on customer care and technology without compromising the quality, service and price of our products.

We work every day with a clear objective: to design solutions at the cutting edge of innovation, to develop and create the alloys of tomorrow.

VISSION

Our vision is to be the leader company in brass alloys sector.

To realize our vision we follow:

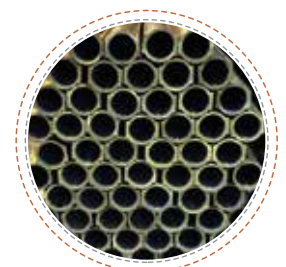
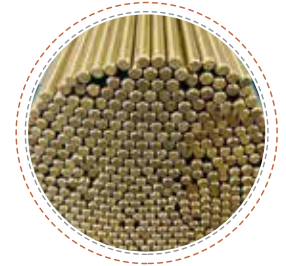
1. Developing our R&D studies
2. Systematize the customer satisfaction
3. Investment of employee satisfaction and development
4. Maintaining the price, service and quality compliances
5. Increasing the range of the products
6. Gear up for Export





Why TRUVA?

- Excellence
- Responsibility
- Innovation
- Experience
- Reliability
- Professional Team
- Fast & Flexible Production
- Value Added Collaboration



02



Brass Characteristics

- High level of corrosion resistance
- Machinability and formability
- Conductivity
- Toughness to extreme temperatures
- Spark resistance
- Low magnetic permeability
- More malleable than zinc or bronze
- Anti-Microbial
- Desirable resonance and acoustic quality
- Easy to cast





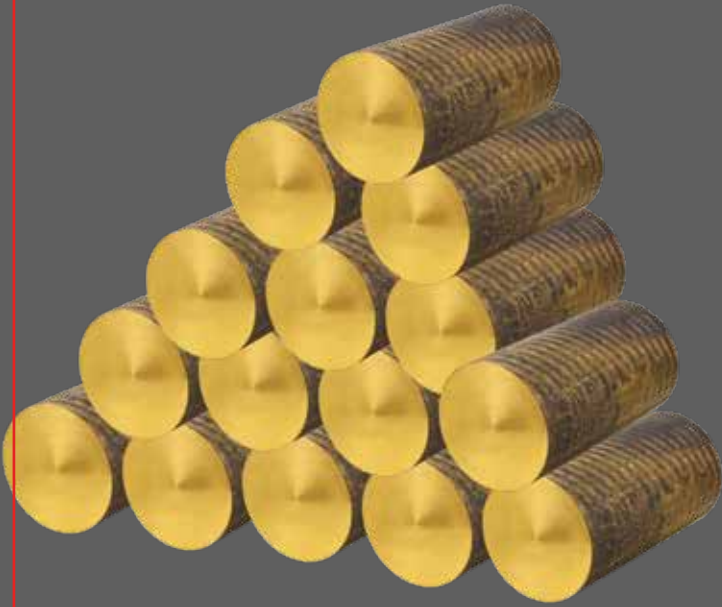
What Are the Application Areas of Brass?

Brass has a wide range of applications due to its excellent workability, corrosion resistance, and antibacterial properties. Some of these applications are listed below:

- Building and architecture
- Bullet cartridges
- Electrical and electronic devices
- Fasteners and inserts
- Nipples and reductions
- Gas fittings and filter
- Hose accessories, hose clips, and clamps
- HVAC (Heating, Ventilation, Air Conditioning)
- Hydraulics
- Musical instruments
- Nuts and screws
- Plumbing accessories
- Pneumatics
- Precise mechanical parts
- Taps, valves, and fittings
- Automotive and transport industry
- Tubes and pipes
- Water armatures
- Door handles and hinges
- Windows, doors, and Locks



BRASS BILLETS



The homogeneous, uniformly shaped billets are produced in continuous casting lines with a capacity of 1500 tons per month.

EN Symbols	EN Codes	Production Ranges
CuZn39Pb3	CW614N	Ø : 100 mm – 200 mm
CuZn40Pb2	CW617N	
CuZn40	CW603N	
CuZn38Pb1	CW607N	
CuZn39Pb2	CW612N	
CuZn37	CW508L	Length
CuZn36Pb3	CW509L	
CuZn39Pb3 DW	CW614N	Standard 3000 mm, up to 4000 mm
CuZn40Pb2 DW	CW617N	
CuZn39Pb2 AL-C	CC7S7S	



BRASS EXTRUDED RODS



Extruded rods are products that are manufactured according to EN 12165 European Standard for hot forging processes.

EN Symbols	EN Codes	Production Ranges
CuZn39Pb3	CW614N	Ø : 10 mm – 100 mm
CuZn40Pb2	CW617N	
CuZn40	CW603N	
CuZn38Pb1	CW607N	
CuZn39Pb2	CW612N	
CuZn37	CW508L	Length
CuZn36Pb3	CW509L	Standard 3000 mm, up to 4000 mm
CuZn39Pb3 DW	CW614N	
CuZn40Pb2 DW	CW617N	

Characteristics of Brass Extruded Rods

- Highest machinability of any copper alloy
- Good corrosion resistance
- Good strength
- Excellent hot formability





BRASS COLD DRAWN RODS

- A free machining brass with the highest possible machinability rating of any copper alloy.
- Cold drawn rods are produced according to EN 12164 and EN 12165 European Standard as well as based on customer request.
- They are high precision products suitable for efficient chip removal in free machining process.

EN Symbols	EN Codes	Production Ranges
CuZn39Pb3	CW614N	Ø : 2 mm – 60 mm
CuZn40Pb2	CW617N	
CuZn40	CW603N	
CuZn38Pb1	CW607N	
CuZn39Pb2	CW612N	
CuZn37	CW508L	
CuZn36Pb3	CW509L	Length
CuZn39Pb3 DW	CW614N	
CuZn40Pb2 DW	CW617N	
		Standard 3000 mm, up to 4000 mm

ROUND, SQUARE, HEXAGONAL RODS

- We supply solid brass rods in a wide range of alloys in order to meet the requirements for every type of application as well as the requirements of each customer.





BRASS PROFILES

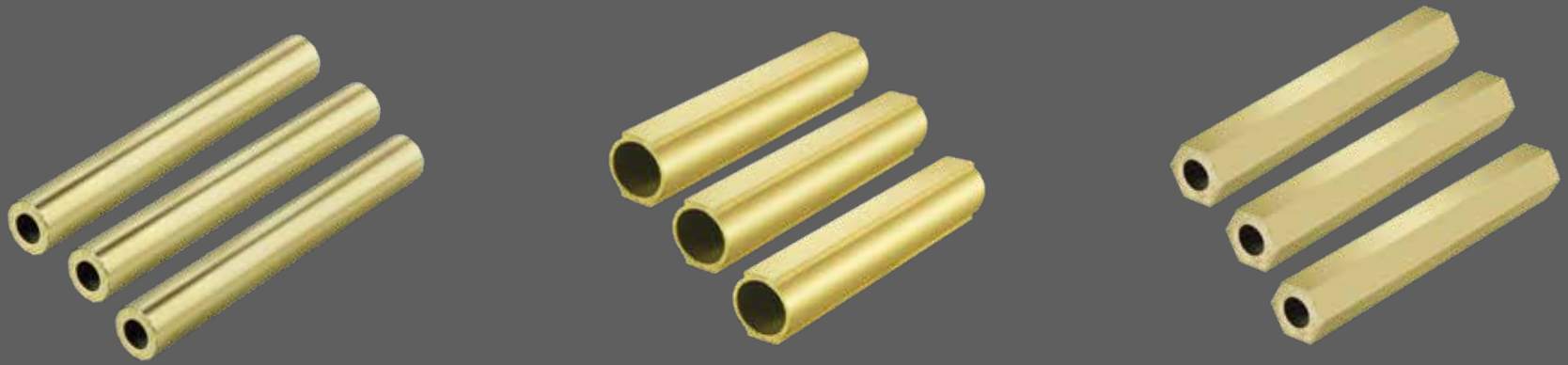
- Profiles are produced according to customer requirements in special sizes and forms with many years of production experience according to EN 12164, EN 12165, and EN 12167 European standards.
- Production for profiles divided into two parts as extruded or cold drawn according to the required dimensional tolerances and mechanical properties.
- Round, square, hexagonal shapes, and can be customized according to customer request.

Areas of application

- Interior Decoration
- Building
- Furnishings
- Doors and Windows
- Lock Industry

EN Symbols	EN Codes	Production Ranges
CuZn39Pb3	CW614N	Ø : 4 mm – 100 mm
CuZn40Pb2	CW617N	
CuZn40	CW603N	Length
CuZn38Pb1	CW607N	
CuZn39Pb2	CW612N	Standard 3000 mm, up to 4000 mm
CuZn37	CW508L	
CuZn36Pb3	CW509L	
CuZn39Pb3 DW	CW614N	
CuZn40Pb2 DW	CW617N	





BRASS HOLLOW RODS

- Brass hollow rods have good hot and cold working capabilities.
- It is used to enable less tool wear, less material consumption and metal loss by decreasing drilling and processing costs to the lowest.
- Round, square and hexagonal forms are available.
- Production is made according to EN 12168 norms

Characteristics

- Good corrosion resistance
- Good hot and cold forming properties
- Very good cold heading attributes
- Excellent weldability
- Very good bending properties
- Reasonable machining properties
- Good strength properties.

EN Symbols	EN Codes	Production Ranges
CuZn39Pb3	CW614N	Outer Diameter
CuZn40Pb2	CW617N	18 mm - 80 mm
CuZn40	CW603N	Inner Diameter
CuZn38Pb1	CW607N	12 mm - 50 mm
CuZn39Pb2	CW612N	Length
CuZn37	CW508L	Standard 3000 mm
CuZn36Pb3	CW509L	Wall Thickness
CuZn39Pb3 DW	CW614N	2 mm - 20 mm
CuZn40Pb2 DW	CW617N	



BRASS COLD DRAWN COILS

- Cold drawn coils are produced according to EN 12166 European Standard.
- They are coil shaped high precision products suitable for efficient chip removal in free machining process.

EN Symbols	EN Codes	Production Ranges
CuZn39Pb3	CW614N	Ø : 0.60 mm – 12 mm Weight of coils can be customized based on customer request.
CuZn40Pb2	CW617N	
CuZn40	CW603N	
CuZn38Pb1	CW607N	
CuZn39Pb2	CW612N	
CuZn37	CW508L	
CuZn36Pb3	CW509L	
CuZn39Pb3 DW	CW614N	
CuZn40Pb2 DW	CW617N	



BRASS WIRES

- Brass wires are used in pins, clips, springs, and many other applications, especially in electrical applications.
- Wires are produced according to TS EN 12164, TS EN 12165, TS EN 12166, and TS EN 12167 norms.

EN Symbols	EN Codes	Wire Diameter
CuZn39Pb3	CW614N	0.25-4 mm. Other sizes can be customized.
CuZn40Pb2	CW617N	
CuZn40	CW603N	
CuZn38Pb1	CW607N	
CuZn39Pb2	CW612N	
CuZn37	CW508L	
CuZn36Pb3	CW509L	
CuZn39Pb3 DW	CW614N	
CuZn40Pb2 DW	CW617N	



BRASS BILLETS

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Production Ranges: 100 mm – 200 mm diameter
Length: Standard 3000 mm, up to 4000 mm



BRASS EXTRUDED RODS

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Production Ranges: 10-100 mm diameter
Length: Standard 3000 mm, up to 4000 mm



BRASS COLD DRAWN COILS

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Production Ranges: 0,60 mm- 12 mm
Weight of coils: can be customized based on customer request.



BRASS HOLLOW RODS

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Length: Standard 3000 mm
OD (Outer Diameter): 18 mm-80 mm;
ID (Internal Diameter): 12 mm-50 mm
Wall Thickness: 2 mm-20 mm



BRASS WIRES

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Wire Diameter: 0.25-4 mm. Other sizes can be customized.



BRASS PROFILES

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Production Ranges: 4-100 mm
Length: Standard 3000 mm, up to 4000 mm

N,



BRASS COLD DRAWN RODS

EN Codes: CW614N, CW617N, CW603N, CW607N, CW612N, CW508L, CW509L
Production Ranges: 2-60 mm diameter
Length: Standard 3000 mm, up to 4000 mm

CHEMICAL COMPOSITION

Copper-Zinc-Lead Alloy Compositions													
Symbol	EN No	UNS No	Element	Cu	Pb	Fe	Al	Sn	Ni	As	Mn	Zn	Others Total
CuZn39Pb3	CW614N	C38500	min.	57,00	2,5	-	-	-	-	-	-	Remainder	-
			max.	59,00	3,5	0,3	0,05	0,3	0,3	-	-		
CuZn40Pb2	CW617N	C38000	min.	57,00	1,6	-	-	-	-	-	-	Remainder	-
			max.	59,00	2,5	0,3	0,05	0,3	0,3	-	-		
CuZn36Pb2As	CW602N	C35330	min.	61,00	1,7	-	-	-	-	0,02	-	Remainder	-
			max.	63,00	2,8	0,1	0,05	0,1	0,3	0,15	0,1		
CuZn36Pb3	CW603N	C36000	min.	60,00	2,5	-	-	-	-	-	-	Remainder	-
			max.	62,00	3,5	0,3	0,05	0,2	0,3	-	-		
CuZn37Pb2	CW606N	C35300	min.	61,00	1,6	-	-	-	-	-	-	Remainder	-
			max.	62,00	2,5	0,2	0,05	0,2	0,3	-	-		
CuZn38Pb2	CW608N	C35000	min.	60,00	1,6	-	-	-	-	-	-	Remainder	-
			max.	61,00	2,5	0,2	0,05	0,2	0,3	-	-		
CuZn39Pb2	CW612N	C37700	min.	59,00	1,6	-	-	-	-	-	-	Remainder	-
			max.	60,00	2,5	0,3	0,05	0,3	0,3	-	-		
CuZn35Pb2	CW601N	C34200	min.	62,00	1,6	-	-	-	-	-	-	Remainder	-
			max.	63,50	2,5	0,1	0,05	0,1	0,3	-	-		
CuZn38Pb1	CW607N	-	min.	60,00	0,8	-	-	-	-	-	-	Remainder	-
			max.	61,00	1,6	0,2	0,05	0,2	0,3	-	-		
CuZn43Pb1Al	CW622N	-	min.	55,00	0,8	-	0,05	-	-	-	-	Remainder	-
			max.	57,00	1,6	0,3	0,5	0,3	0,3	-	-		
CuZn43Pb2Al	CW624N	-	min.	55,00	1,6	-	0,05	-	-	-	-	Remainder	-
			max.	57,00	3,0	0,3	0,5	0,3	0,3	-	-		
CuZn39Pb2Al-C	CC757S	-	min.	58,00	0,2	-	0,3	-	-	-	-	Remainder	-
			max.	63,00	1,4	0,3	0,9	0,5	0,2	-	0,05		
CuZn39Pb3 DW	CW614N		min.	57,00	2,5	-	-	-	-	-	-	Remainder	-
			max.	59,00	3,5	0,3	0,1	0,3	0,3	-	-		
CuZn40Pb2 DW	CW617N		min.	60,00	1,6	-	-	-	-	-	-	Remainder	-
			max.	62,00	2,5	0,3	0,1	0,2	0,3	-	-		

Copper-Zinc Alloy Compositions													
Symbol	EN No	UNS No	Element	Cu	Pb	Fe	Al	Sn	Ni	As	Mn	Zn	Others Total
CuZn37	CW508L		min.	62,00	-	-	-	-	-	-	-	Remainder	-
			max.	64,00	0,1	0,1	0,05	0,1	0,3	-	-		
CuZn40	CW509L	C27450	min.	59,00	-	-	-	-	-	-	-	Remainder	-
			max.	61,50	0,2	0,2	0,05	0,2	0,3	-	-		
CuZn42	CW510L		min.	57,00	-	-	-	-	-	-	-	Remainder	-
			max.	59,00	0,2	0,3	0,05	0,3	0,3	-	-		
CuZn38As	CW511L		min.	61,50	-	-	-	-	-	0,02	-	Remainder	-
			max.	63,50	0,2	0,1	0,05	0,1	0,3	0,15	-		

Mechanical Properties

	Hot Forming Temperature °C	Annealing Temperature °C	Stress Relieving Annealing °C	Thermal Conductivity Coefficient W/m.K	Electrical Conductivity Coefficient MS/m
CuZn39Pb3	625 - 725	425 - 600	200 - 300	113	14,6
CuZn40Pb2	650 - 825	425 - 600	200 - 300	113	14,6
CuZn38Pb1	650 - 800	425 - 600	250 - 350	117	13,9
CuZn36Pb3	700 - 800	425 - 600	200 - 300	100	13
CuZn37	750 - 850	450 - 650	250 - 350	121	15,5

Mechanical Properties

	Density g/cm ³	Machineability	Cold Forming	Hot Forming	Soft Soldering	Hard Soldering
CuZn39Pb3	8,47	100%	Zayıf / Poor	Mükemmel / Excellent	Vasat / Fair	Çok İyi / Excellent
CuZn40Pb2	8,44	95%	Zayıf / Poor	Mükemmel / Excellent	Vasat / Fair	Çok İyi / Excellent
CuZn38Pb1	8,41	85%	İyi / Good	Mükemmel / Excellent	Vasat / Fair	Çok İyi / Excellent
CuZn36Pb3	8,5	90%	Vasat / Fair	İyi / Good	Vasat / Fair	Çok İyi / Excellent
CuZn37	8,44	30%	Mükemmel / Excellent	İyi / Good	Çok İyi / Excellent	Çok İyi / Excellent

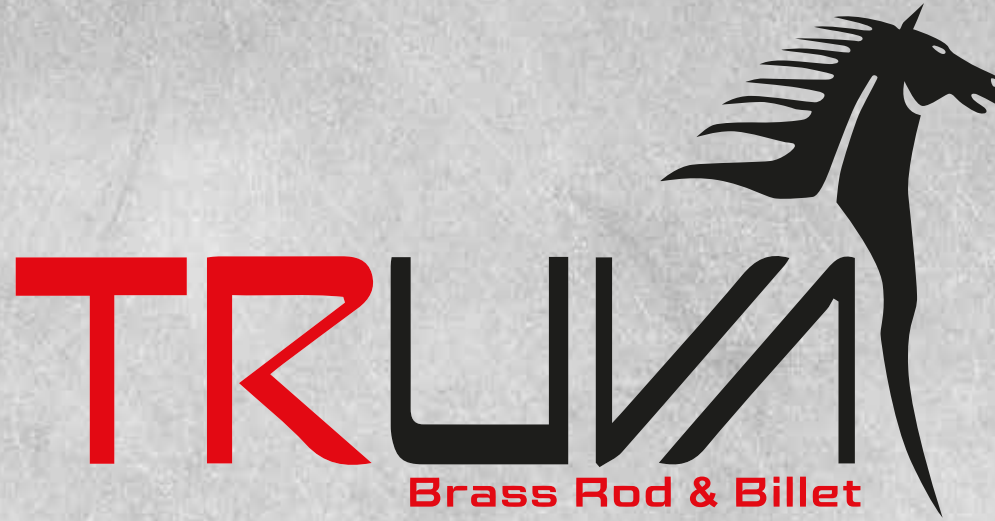
WEIGHT - SIZE TABLE

Round Bar					
Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3	Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3
3	0,06	•	42	11,8	•
4	0,1	•	44	12,9	•
5	0,16	•	45	13,5	•
6	0,24	•	46	14,1	•
7	0,32	•	48	15,4	•
8	0,43	•	50	16,7	•
9	0,54	•	52	18,1	•
10	0,67	•	55	20,2	•
11	0,8	•	56	21	•
12	0,96	•	58	22,5	•
13	1,1	•	60	24	•
14	1,3	•	61	24,8	•
15	1,5	•	62	25,7	•
16	1,7	•	65	28,2	•
17	1,9	•	70	32,7	•
18	2,2	•	71	33,6	•
19	2,4	•	75	37,6	•
20	2,7	•	80	42,7	•
21	2,9	•	82	44,9	•
22	3,2	•	85	48,2	•
23	3,6	•	90	54,1	•
24	3,9	•	92	56,5	•
25	4,2	•	95	60,3	•
26	4,5	•	100	66,8	•
27	4,9	•	105	73,7	•
28	5,2	•	110	80,8	•
29	5,6	•	120	96,1	•
30	6	•	130	112,8	•
31	6,4	•	140	130,8	•
32	6,8	•	150	150,1	•
33	7,3	•	160	170,8	•
34	7,7	•	170	192,8	•
35	8,2	•	180	216,9	•
36	8,7	•	200	266,9	•
38	9,6	•	210	294,3	•
40	10,7	•	220	323	•
41	11,2	•			

Hexagonal Bar					
Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3	Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3
4	0,12	•	20	2,9	•
5	0,18	•	21	3,2	•
5,5	0,22	•	22	3,6	•
6	0,26	•	24	4,2	•
7	0,36	•	27	5,4	•
8	0,47	•	30	6,6	•
9	0,6	•	32	7,5	•
10	0,74	•	36	9,5	•
11	0,89	•	41	12,4	•
12	1,1	•	46	15,6	•
13	1,2	•	50	18,4	•
14	1,4	•	55	22,3	•
15	1,7	•	60	26,5	•
17	2,1	•	65	31,1	•
18	2,4	•	70	36,1	•
19	2,7	•			

Profile					
Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3	Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3
8 x 3	0,2	•	40 x 6	2	•
8 x 4	0,27	•	40 x 8	2,7	•
10 x 4	0,34	•	40 x 10	3,4	•
10 x 5	0,43	•	40 x 12	4,1	•
12 x 3	0,31	•	40 x 15	5,1	•
12 x 4	0,41	•	40 x 20	6,8	•
12 x 5	0,51	•	40 x 25	8,5	•
12 x 6	0,61	•	40 x 30	10,2	•
12 x 8	0,82	•	40 x 35	11,9	•
12 x 10	1,02	•	45 x 12	4,6	•
15 x 3	0,38	•	45 x 20	7,7	•
15 x 4	0,51	•	50 x 4	1,7	•
15 x 5	0,63	•	50 x 5	2,1	•
15 x 6	0,77	•	50 x 8	3,4	•
15 x 8	1	•	50 x 10	4,3	•
15 x 10	1,3	•	50 x 12	5,1	•
15 x 12	1,5	•	50 x 15	6,4	•
20 x 3	0,51	•	50 x 20	8,5	•
20 x 4	0,68	•	50 x 25	10,6	•
20 x 5	0,85	•	50 x 30	12,8	•
20 x 6	1	•	50 x 40	17	•
20 x 8	1,4	•	60 x 5	2,6	•
20 x 10	1,7	•	60 x 6	3,1	•
20 x 12	2	•	60 x 10	5,1	•
20 x 15	2,6	•	60 x 12	6,1	•
25 x 2	0,49	•	60 x 15	7,7	•
25 x 3	0,63	•	60 x 20	10,2	•
25 x 4	0,85	•	60 x 25	12,8	•
25 x 5	1,1	•	60 x 30	15,3	•
25 x 6	1,3	•	60 x 40	20,4	•
25 x 8	1,7	•	70 x 10	6	•
25 x 10	2,1	•	70 x 15	8,9	•
25 x 12	2,6	•	70 x 20	11,9	•
25 x 15	3,2	•	70 x 30	17,9	•
25 x 20	4,3	•	70 x 40	23,8	•
30 x 4	1	•	80 x 5	3,4	•
30 x 5	1,3	•	80 x 6	4,1	•
30 x 6	1,5	•	80 x 10	6,8	•
30 x 8	2	•	80 x 15	10,2	•
30 x 10	2,6	•	80 x 20	13,6	•
30 x 12	3,1	•	80 x 25	17	•
30 x 15	3,8	•	80 x 40	27,2	•
30 x 20	5,1	•	100 x 10	8,5	•
30 x 25	6,4	•	100 x 15	12,8	•
35 x 20	6	•	100 x 20	17	•
40 x 4	1,4	•	100 x 30	25,5	•
40 x 5	1,7	•	100 x 50	42,5	•

Square Bar					
Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3	Size (mm)	Alloy Weight kg/m	Cu Zn 39 Pb 3
4	0,14	•	24	4,9	•
5	0,21	•	25	5,3	•
6	0,31	•	27	6,2	•
7	0,42	•	30	7,7	•
8	0,54	•	32	8,7	•
10	0,85	•	35	10,4	•
12	1,2	•	40	13,6	•
14	1,7	•	45	17,2	•
15	1,9	•	50	21,3	•
18	2,8	•	60	30,6	•
20	3,4	•	70	41,7	•
22	4,1	•	80	54,4	•



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