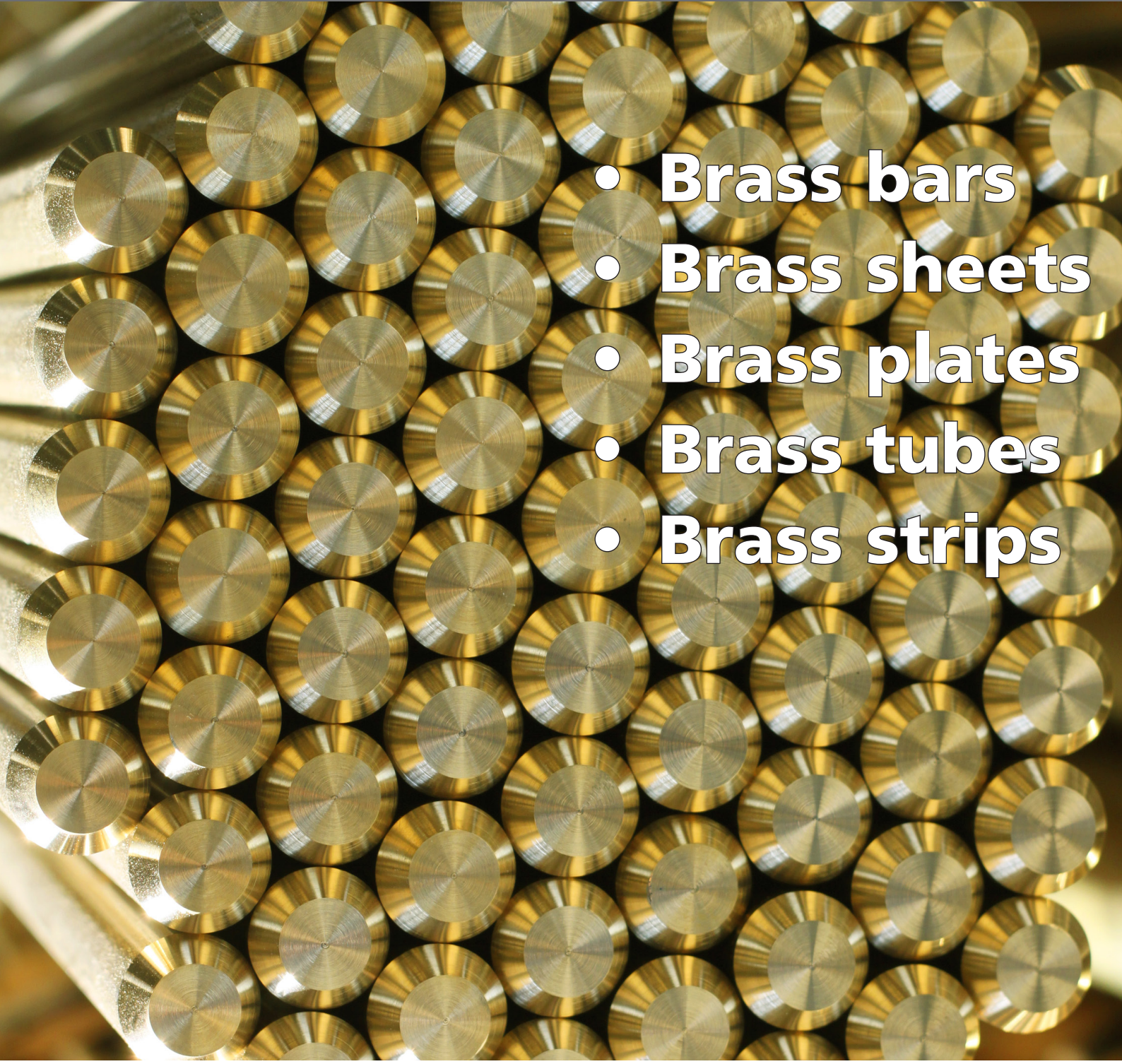


METALCENTER GROUP

BRASS - STANDARD PRODUCTS

- 
- **Brass bars**
 - **Brass sheets**
 - **Brass plates**
 - **Brass tubes**
 - **Brass strips**



TO BE NO. 1

By creating competitiveness for our partners

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Metalcenter group - Profile

Metalcenter group is 100% owned by **Alumeco** (Scandinavia's largest Aluminium wholeseller). Metalcenter was founded in 2009 – and in 2017 we are one of the largest red-metal wholesalers in North Europe.

Metalcenter is completely integrated with Alumeco – with joint stocks and local logistic centers in Scandinavia and East-Central Europe. We have joint functions like administration, IT, accounting, quality, production, logistic and marketing.

Metalcenter is based in Scandinavia – with 3 metal stocks in Denmark, Sweden and Finland – but also has stock-setup in Germany, and even in the US and China through our group partners in the Alumeco Group.



Metalcenter is 9001 certified.

Facts



Metalcenter Group turnover: Appro. 80 mill. EUR.
15,000 tons yearly



No. of employees: 50



Stock: 3 local stocks in Scandinavia - 2,000 tons in total



Production: 2 sites (slitting, sawing, machining and assembly)



Metals: Copper, brass, bronze and other metals



Material type: Coils / strips, sheets, bars, tubes, wires



Customized products: Busbars, bushings, bearings, cables, fittings..etc.



Metalcenter group – we do all in copper, brass and bronze

Our focus is 100% on “The red metals”.
We offer you a wide product portfolio of:

- Sheets and strips
- Round, square, hexagonal bars and flat bars
- Tubes
- Cut-to-length tubes, bars and sheets
- Customized products
- Ingots

We offer you everything from small deliveries to large individual solutions customized in every way for your needs.

In our cooperation, we **focus on**...:

...Dialogue

Our experienced consultants are ready to help you find the best, most suitable and cost-effective products and solutions for your projects.

...Processing and production flow

On Metalcenter's own processing centers in Denmark and Sweden we can both saw, machine and slit the raw material to fit exactly into your production flow and need.

...Logistic and deliveries

From our centrally placed logistic centers in Denmark, Sweden and Finland we offer day-to-day deliveries.

Should there be items we do not have in stock for immediate delivery, we have a large network of mill partners with stocks all over Europe which gives us fast and flexible access to the goods.

If you need storage between production and delivery, we can offer you this option as part of the solution. We can provide large storage capacity – for buffer and security stocks.

...Service

You will get the same kind of service no matter if you order 10 kg or 1000 tons of material. We offer you professional consulting regardless of the size of your business or the size of your order.

Our **key value** is customer focus and our **key aim** is 100% customer satisfaction through proactive customer service.

BRASS - ROUND BARS

Round bars, Drawn / Extruded



Alloy: CuZn39Pb3 - CW614N - Standard machinable alloy

Norm: EN 12164

Dim.	kg/m	Length		Dim.	kg/m	Length		Dim.	kg/m	Length	
mm		3000 mm	4000 mm	mm		3000 mm	4000 mm	mm		3000 mm	4000 mm
1,00	0,007	▲	▲	15,00	1,502	●	●	40,00	10,688	●	●
1,20	0,010	▲	▲	15,50	1,605	▲	▲	41,00	11,229	●	▲
1,50	0,015	▲	▲	16,00	1,710	●	●	42,00	11,780	●	▲
1,80	0,022	▲	▲	16,50	1,819	▲	▲	43,00	12,351	▲	▲
2,00	0,027	▲	▲	17,00	1,929	●	●	44,00	12,932	▲	▲
2,20	0,032	▲	▲	17,50	2,046	▲	▲	45,00	13,512	●	●
2,50	0,042	▲	▲	18,00	2,163	●	●	46,00	14,130	●	▲
2,70	0,049	▲	▲	18,50	2,286	▲	▲	47,00	14,756	▲	▲
3,00	0,060	●	▲	19,00	2,410	●	●	48,00	15,373	●	▲
3,20	0,068	▲	▲	19,50	2,540	▲	▲	49,00	16,039	▲	▲
3,30	0,073	▲	▲	20,00	2,672	●	●	50,00	16,681	●	▲
3,50	0,082	●	▲	20,50	2,807	▲	▲	51,00	17,375	▲	▲
3,80	0,096	▲	▲	21,00	2,944	●	●	52,00	18,050	●	▲
4,00	0,107	●	●	21,50	3,088	▲	▲	53,00	18,764	▲	▲
4,50	0,135	●	▲	22,00	3,231	●	●	54,00	19,479	▲	▲
5,00	0,167	●	●	22,50	3,382	▲	▲	55,00	20,184	●	▲
5,50	0,202	●	▲	23,00	3,534	●	▲	56,00	20,948	▲	▲
6,00	0,240	●	●	23,50	3,689	▲	▲	58,00	22,471	▲	▲
6,25	0,261	▲	▲	24,00	3,847	●	●	59,00	23,253	▲	▲
6,50	0,282	●	▲	24,50	4,010	▲	▲	60,00	24,021	●	▲
7,00	0,327	●	●	25,00	4,175	●	●	62,00	25,677	▲	▲
7,50	0,376	▲	▲	26,00	4,512	●	●	64,00	27,361	▲	▲
8,00	0,427	●	●	26,50	4,691	▲	▲	65,00	28,223	●	▲
8,50	0,482	▲	▲	27,00	4,880	●	●	68,00	30,888	▲	▲
9,00	0,541	●	●	28,00	5,232	●	●	70,00	32,732	●	▲
9,50	0,603	●	▲	29,00	5,618	▲	▲	72,00	34,629	▲	▲
10,00	0,668	●	●	30,00	6,008	●	●	75,00	37,575	●	▲
10,50	0,737	●	▲	31,00	6,432	●	▲	80,00	42,752	●	▲
11,00	0,808	●	●	32,00	6,840	●	●	85,00	48,209	●	▲
11,50	0,883	●	▲	33,00	7,276	●	▲	90,00	54,047	●	▲
12,00	0,961	●	●	34,00	7,716	●	▲	100,00	66,73	●	▲
12,50	1,040	●	▲	35,00	8,188	●	●	110,00	80,74	●	▲
13,00	1,128	●	●	36,00	8,652	●	▲	125,00	104,258	●	▲
13,50	1,220	▲	▲	37,00	9,145	▲	▲	150,00	150,13	●	▲
14,00	1,308	●	●	38,00	9,640	●	▲	160,00	170,82	●	▲
14,50	1,400	▲	▲	39,00	10,160	▲	▲				

Length tolerances	
Ø 3 - 31 mm.	3000 mm. - 0 / + 50 mm. 4000 mm. + 0 / - 50 mm.
From Ø 32 mm.	3000 mm. - 0 / + 100 mm.

Chamfering	
Ø 3 - 32 mm.	both ends
Ø 32 - 70 mm.	one end/sawn
From Ø 71 mm.	no chamfering/sawn

● = Stock

▲ = On request

Round bars, Drawn / Extruded



Alloy: CW617N

Norm: EN 12164

Dim.	kg/m	Length		Dim.	kg/m	Length		Dim.	kg/m	Length	
mm		3000 mm	4000 mm	mm		3000 mm	4000 mm	mm		3000 mm	4000 mm
1,00	0,007	▲	▲	15,00	1,502	▲	▲	40,00	10,688	●	▲
1,20	0,010	▲	▲	15,50	1,605	▲	▲	41,00	11,229	▲	▲
1,50	0,015	▲	▲	16,00	1,710	●	▲	42,00	11,780	▲	▲
1,80	0,022	▲	▲	16,50	1,819	▲	▲	43,00	12,351	▲	▲
2,00	0,027	▲	▲	17,00	1,929	●	▲	44,00	12,932	▲	▲
2,20	0,032	▲	▲	17,50	2,046	▲	▲	45,00	13,512	▲	▲
2,50	0,042	▲	▲	18,00	2,163	●	▲	46,00	14,130	●	▲
2,70	0,049	▲	▲	18,50	2,286	▲	▲	47,00	14,756	▲	▲
3,00	0,060	▲	▲	19,00	2,410	▲	▲	48,00	15,373	▲	▲
3,20	0,068	▲	▲	19,50	2,540	▲	▲	49,00	16,039	▲	▲
3,30	0,073	▲	▲	20,00	2,672	●	▲	50,00	16,681	●	▲
3,50	0,082	▲	▲	20,50	2,807	▲	▲	51,00	17,375	▲	▲
3,80	0,096	▲	▲	21,00	2,944	●	▲	52,00	18,050	▲	▲
4,00	0,107	▲	▲	21,50	3,088	▲	▲	53,00	18,764	▲	▲
4,50	0,135	▲	▲	22,00	3,231	●	▲	54,00	19,479	▲	▲
5,00	0,167	▲	▲	22,50	3,382	▲	▲	55,00	20,184	▲	▲
5,50	0,202	▲	▲	23,00	3,534	●	▲	56,00	20,948	▲	▲
6,00	0,240	▲	▲	23,50	3,689	▲	▲	58,00	22,471	▲	▲
6,25	0,261	▲	▲	24,00	3,847	▲	▲	59,00	23,253	▲	▲
6,50	0,282	▲	▲	24,50	4,010	▲	▲	60,00	24,021	●	▲
7,00	0,327	▲	▲	25,00	4,175	●	▲	62,00	25,677	▲	▲
7,50	0,376	▲	▲	26,00	4,512	●	▲	64,00	27,361	▲	▲
8,00	0,427	▲	▲	26,50	4,691	▲	▲	65,00	28,223	▲	▲
8,50	0,482	▲	▲	27,00	4,880	▲	▲	68,00	30,888	▲	▲
9,00	0,541	▲	▲	28,00	5,232	●	▲	70,00	32,732	▲	▲
9,50	0,603	▲	▲	29,00	5,618	▲	▲	72,00	34,629	▲	▲
10,00	0,668	▲	▲	30,00	6,008	●	▲	75,00	37,575	▲	▲
10,50	0,737	▲	▲	31,00	6,432	▲	▲	80,00	42,752	▲	▲
11,00	0,808	▲	▲	32,00	6,840	●	▲	85,00	48,09	●	▲
11,50	0,883	▲	▲	33,00	7,276	▲	▲	90,00	54,047	●	▲
12,00	0,961	▲	▲	34,00	7,716	▲	▲	100,00	66,73	▲	▲
12,50	1,040	▲	▲	35,00	8,188	●	▲	110,00	80,74	▲	▲
13,00	1,128	▲	▲	36,00	8,652	●	▲	115,00	88,244	●	▲
13,50	1,220	▲	▲	37,00	9,145	▲	▲	120,00	96,084	●	▲
14,00	1,308	●	▲	38,00	9,640	▲	▲	150,00	150,13	▲	▲
14,50	1,400	▲	▲	39,00	10,160	▲	▲	160,00	170,82	▲	▲

Length tolerances

Ø 3 - 31 mm.	3000 mm. - 0 / + 50 mm. 4000 mm. + 0 / - 50 mm.
From Ø 32 mm.	3000 mm. - 0 / + 100 mm.

Chamfering

Ø 3 - 31 mm.	both ends
Ø 32 - 50 mm.	one end
From Ø 51 mm.	no chamfering

● = Stock

▲ = On request

BRASS - ROUND BARS

Round bars, Drawn

Alloy: CuZn36Pb2As - CW602N (resistant to dezincification)

Norm: EN 12164

Dim.	kg/m	Length		Dim.	kg/m	Length	
mm		3000 mm	4000 mm	mm		3000 mm	4000 mm
5,00	0,167	▲	▲	36,00	8,65	●	▲
6,00	0,240	▲	▲	38,00	9,64	●	▲
7,00	0,327	▲	▲	39,00	10,15	▲	▲
8,00	0,427	▲	▲	40,00	10,68	●	▲
10,00	0,670	●	▲	42,00	11,78	●	▲
11,00	0,810	▲	▲	44,00	12,92	▲	▲
12,00	0,960	▲	▲	45,00	13,52	●	▲
13,00	1,130	●	▲	46,00	14,13	▲	▲
14,00	1,310	▲	▲	48,00	15,38	▲	▲
15,00	1,500	●	▲	50,00	16,69	●	▲
16,00	1,710	●	▲	52,00	18,05	▲	▲
17,00	1,930	●	▲	54,00	19,47	▲	▲
18,00	2,160	●	▲	55,00	20,19	●	▲
19,00	2,410	▲	▲	56,00	20,94	▲	▲
20,00	2,670	●	▲	58,00	22,46	▲	▲
21,00	2,940	●	▲	60,00	24,03	●	▲
22,00	3,230	●	▲	65,00	28,21	▲	▲
23,00	3,530	▲	▲	70,00	32,71	▲	▲
24,00	3,850	●	▲	75,00	37,55	▲	▲
25,00	4,170	●	▲	80,00	42,73	▲	▲
26,00	4,510	▲	▲				
27,00	4,870	●	▲				
28,00	5,230	●	▲				
29,00	5,610	▲	▲				
30,00	6,010	●	▲				
32,00	6,840	●	▲				
33,00	7,270	▲	▲				
34,00	7,720	▲	▲				
35,00	8,180	●	▲				

Length tolerances

Ø5 - Ø31	-0/+50 mm
From Ø32	-0/+100 mm

Chamfering

Ø 3 - 32 mm.	both ends
Ø 32 - 70 mm.	one end/sawn
From Ø 71 mm.	no chamfering/sawn

● = Stock

▲ = On request

BRASS - ROUND BARS

Round bars, Drawn / Extruded



Alloy: CW625 (Resistant to dezinfication)

Norm: EN 12165

Dim. mm	kg/m	Length 3000 mm	Length 4000 mm	Dim. mm	kg/m	Length 3000 mm	Length 4000 mm	Dim. mm	kg/m	Length 3000 mm	Length 4000 mm
10,00	0,670	▲	▲	46,00	14,130	▲	▲	82,00	44,89	▲	▲
11,00	0,810	▲	▲	47,00	14,750	▲	▲	85,00	48,26	▲	▲
12,00	0,960	▲	▲	48,00	15,380	▲	▲	90,00	54,07	▲	▲
13,00	1,130	▲	▲	49,00	16,030	▲	▲	95,00	60,29	▲	▲
14,00	1,310	▲	▲	50,00	16,690		▲	100,00	66,73	▲	▲
15,00	1,500	▲	▲	51,00	17,360	▲	▲	105,00	73,65	▲	▲
16,00	1,710	▲	▲	52,00	18,050	▲	▲	110,00	80,83	▲	▲
17,00	1,930		▲	53,00	18,750	▲	▲	115,00	88,34	▲	▲
18,00	2,160	▲	▲	54,00	19,470	▲	▲	120,00	96,19	▲	▲
19,00	2,410	▲	▲	55,00	20,190	▲	▲	125,00	104,38	▲	▲
20,00	2,670		▲	56,00	20,940	▲	▲	130,00	112,89	▲	▲
21,00	2,940	▲	▲	57,00	21,690	▲	▲	140,00	130,93	▲	▲
22,00	3,230	▲	▲	58,00	22,460	▲	▲	150,00	150,30	▲	▲
23,00	3,530	▲	▲	59,00	23,240	▲	▲	160,00	171,01	▲	▲
24,00	3,850	▲	▲	60,00	24,030	▲	▲	170,00	193,05	▲	▲
25,00	4,170		▲	61,00	24,840	▲	▲	180,00	216,43	▲	▲
26,00	4,510	▲	▲	62,00	25,660	▲	▲	185,00	228,62	▲	▲
27,00	4,870	▲	▲	63,00	26,500	▲	▲	190,00	241,15	▲	▲
28,00	5,230	▲	▲	64,00	27,340	▲	▲	200,00	257,20	▲	▲
29,00	5,610	▲	▲	65,00	28,210	▲	▲	210,00	294,59	▲	▲
30,00	6,010		▲	66,00	29,080	▲	▲	220,00	323,31	▲	▲
31,00	6,420	▲	▲	67,00	29,960	▲	▲	225,00	338,18	▲	▲
32,00	6,840	▲	▲	68,00	30,870	▲	▲	230,00	353,37	▲	▲
33,00	7,270	▲	▲	69,00	31,780	▲	▲	250,00	417,50	▲	▲
34,00	7,720	▲	▲	70,00	32,710	▲	▲	280,00	523,71	▲	▲
35,00	8,180	▲	▲	71,00	33,650	▲	▲	300,00	601,20	▲	▲
36,00	8,650	▲	▲	72,00	34,610	▲	▲	350,00	818,30	▲	▲
37,00	9,140	▲	▲	73,00	35,580	▲	▲				
38,00	9,640	▲	▲	74,00	36,560	▲	▲				
39,00	10,150	▲	▲	75,00	37,550	▲	▲				
40,00	10,680		▲	76,00	38,560	▲	▲				
41,00	11,220	▲	▲	77,00	39,580	▲	▲				
42,00	11,780	▲	▲	78,00	40,620	▲	▲				
43,00	12,340	▲	▲	79,00	41,660	▲	▲				
44,00	12,920	▲	▲	80,00	42,730	▲	▲				
45,00	13,520	▲	▲								

Length tolerances

+ / -100 mm

Chamfering

Ø 3 - 32 mm.	both ends
Ø 32 - 70 mm.	one end/sawn
From Ø 71 mm.	no chamfering/sawn

● = Stock

▲ = On request



BRASS - HEXAGONAL BARS

Hexagonal bars, drawn/extruded



Alloy: CuZn39Pb3 - CW614N - Standard machinable alloy

Norm: EN 12164

Dim. mm	kg/m	Length		Dim. mm	kg/m	Length	
		3000 mm	4000 mm			3000 mm	4000 mm
2,50	0,046	▲	▲	36,00	9,540	●	▲
3,00	0,067	▲	▲	38,00	10,630	▲	●
4,00	0,118	▲	▲	40,00	11,780	●	▲
4,50	0,149	▲	▲	41,00	12,370	●	▲
5,00	0,184	▲	▲	42,00	12,980	▲	●
5,50	0,223	▲	▲	45,00	14,910	▲	▲
6,00	0,265	▲	▲	46,00	15,580	●	▲
7,00	0,361	●	▲	48,00	16,960	▲	▲
8,00	0,471	●	▲	50,00	18,400	●	▲
9,00	0,596	▲	▲	52,00	19,900	▲	▲
10,00	0,736	●	▲	55,00	22,270	▲	▲
11,00	0,892	●	▲	60,00	26,500	●	▲
12,00	1,060	●	▲	65,00	31,100	●	▲
13,00	1,244	●	▲	70,00	36,070	●	▲
14,00	1,444	●	●	75,00	41,410	●	▲
15,00	1,660	●	●	80,00	47,110	▲	▲
16,00	1,884	●	▲	85,00	53,176	▲	▲
17,00	2,128	●	●	100,00	73,610	▲	▲
18,00	2,380	●	▲	110,00	89,056	▲	▲
19,00	2,656	●	●				
20,00	2,940	●	●				
21,00	3,256	●	▲				
22,00	3,563	●	●				
23,00	3,890	●	▲				
24,00	4,240	●	●				
25,00	4,600	●	▲				
26,00	4,980	●	▲				
27,00	5,370	●	●				
28,00	5,770	●	▲				
29,00	6,190	●	▲				
30,00	6,624	●	●				
32,00	7,540	●	●				
34,00	8,510	●	▲				
35,00	9,020	●	▲				

Length tolerances

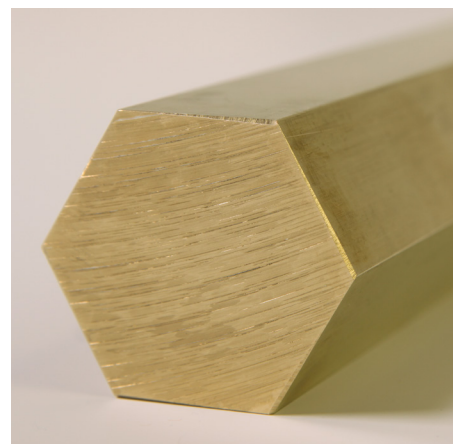
3000 mm.	5 - 31 mm. - 0 / + 50 mm. From 32 mm. - 0 / + 100 mm.
4000 mm.	+ 0 / - 50 mm.

Chamfering

Ø5 mm	both ends
25 - 46 mm	one end
> 46 mm	no chamfering

● = Stock

▲ = On request



BRASS - SQUARE BARS

Square bars, drawn

Alloy: CuZn39Pb3 - CW614N - Standard machinable alloy

Norm: EN 12164

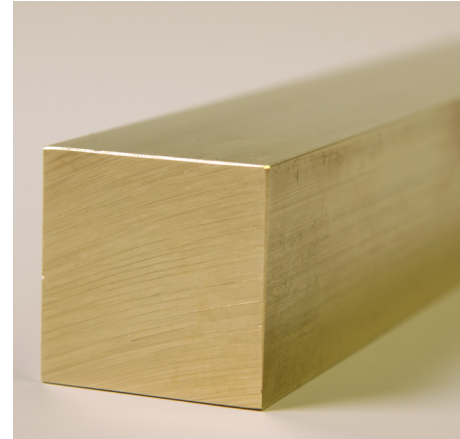
Dim. mm	kg/m	Length		Dim. mm	kg/m	Length	
		3000 mm	4000 mm			3000 mm	4000 mm
2,00	0,034	▲	▲	41,00	14,29	▲	▲
3,00	0,076	▲	▲	42,00	14,99	▲	▲
4,00	0,136	▲	▲	45,00	17,21	▲	▲
4,50	0,172	▲	▲	50,00	21,25	●	▲
5,00	0,213	▲	▲	55,00	25,71	▲	▲
5,50	0,257	▲	▲	60,00	30,60	▲	●
6,00	0,306	●	▲	65,00	35,91	▲	▲
7,00	0,417	▲	▲	70,00	41,65	▲	▲
8,00	0,544	▲	▲	75,00	47,01	▲	▲
9,00	0,689	▲	▲	80,00	54,40	▲	▲
9,50	0,765	▲	▲	85,00	61,41	▲	▲
10,00	0,850	●	●	90,00	68,85	▲	▲
11,00	1,030	▲	▲	100,00	85,00	▲	▲
12,00	1,220	●	●	110,00	102,85	▲	▲
13,00	1,440	▲	▲				
14,00	1,670	▲	▲				
15,00	1,910	●	▲				
16,00	2,180	●	▲				
17,00	2,460	▲	▲				
18,00	2,750	▲	▲				
19,00	3,070	▲	▲				
20,00	3,400	●	●				
22,00	4,160	▲	▲				
24,00	4,900	▲	▲				
25,00	5,310	●	▲				
26,00	5,750	▲	▲				
27,00	6,200	▲	▲				
28,00	6,660	▲	▲				
30,00	7,650	●	▲				
32,00	8,700	▲	▲				
34,00	9,830	▲	▲				
35,00	10,410	▲	●				
36,00	11,020	▲	▲				
38,00	12,270	▲	▲				
40,00	13,600	●	●				

Length tolerances

3000 mm.	+ / - 50 mm.
4000 mm.	+ / - 50 mm.

● = Stock

▲ = On request



BRASS - HEXAGONAL BARS

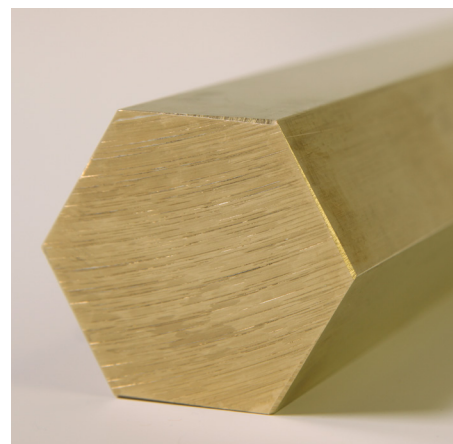
Hexagonal bars, drawn



Alloy: CuZn36Pb2As - CW602N (resistant to dezincification)

Norm: EN 12164

Dim.	kg/m	Length		Dim.	kg/m	Length	
mm		3000 mm	4000 mm	mm		3000 mm	4000 mm
10,00	0,74	▲	▲	39,00	11,20	▲	▲
11,00	0,89	▲	▲	40,00	11,78	▲	▲
12,00	1,06	▲	▲	41,00	12,37	▲	▲
13,00	1,24	▲	▲	42,00	12,98	▲	▲
14,00	1,44	▲	▲	43,00	13,61	▲	▲
15,00	1,66	▲	▲	44,00	14,25	▲	▲
16,00	1,88	▲	▲	45,00	14,91	▲	▲
17,00	2,13	●	▲	46,00	15,58	▲	▲
18,00	2,38	▲	▲	47,00	16,26	▲	▲
19,00	2,66	▲	▲	48,00	16,96	▲	▲
20,00	2,94	▲	▲	49,00	17,67	▲	▲
21,00	3,23	▲	▲	50,00	18,40	▲	▲
22,00	3,54	●	▲	51,00	19,15	▲	▲
23,00	3,89	▲	▲	52,00	19,90	▲	▲
24,00	4,24	▲	▲	53,00	20,68	▲	▲
25,00	4,60	▲	▲	54,00	21,46	▲	▲
26,00	4,98	▲	▲	55,00	22,27	▲	▲
27,00	5,37	●	▲	56,00	23,08	▲	▲
28,00	5,77	▲	▲	57,00	23,92	▲	▲
29,00	6,19	▲	▲	58,00	24,76	▲	▲
30,00	6,63	●	▲	59,00	25,62	▲	▲
31,00	7,07	▲	▲	60,00	26,50	▲	▲
32,00	7,54	●	▲	61,00	27,39	▲	▲
33,00	8,02	▲	▲	62,00	28,30	▲	▲
34,00	8,51	▲	▲	63,00	29,22	▲	▲
35,00	9,02	▲	▲	64,00	30,15	▲	▲
36,00	9,54	●	▲	65,00	31,10	▲	▲
37,00	10,08	▲	▲				
38,00	10,63	▲	▲				



Length tolerances

+ / - 50 mm

Chamfering

10 - 32 mm.

Both ends

From 33 mm.

Sawn

● = Stock

▲ = On request





Recycling for a green environment

We offer to buy brass turnings and rod ends according to EN 12861.

Containers are provided for collecting turnings and rod ends.

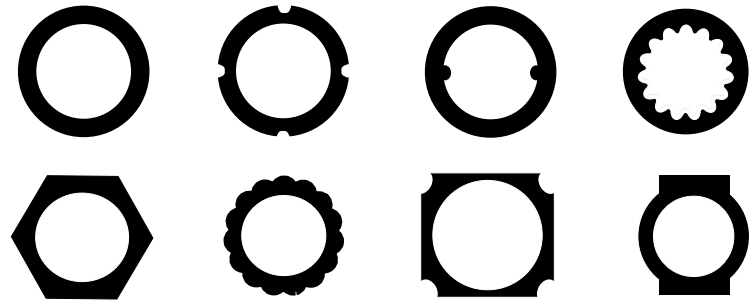


Yes Please!

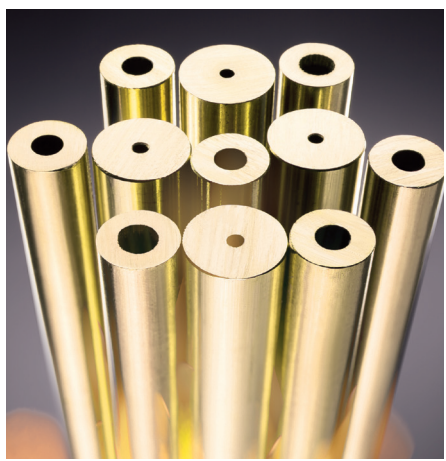
Hollow bars

Norm: EN 12168

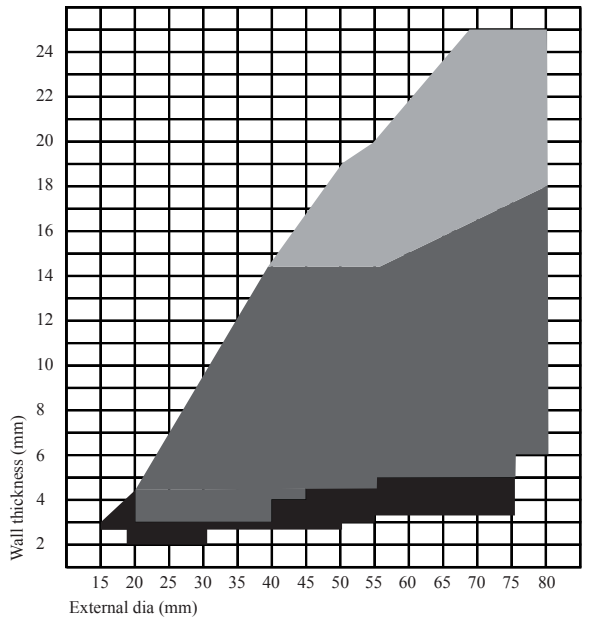
Examples of shapes



Alloys	CuZn36Pb2As	CW602N
	CuZn36Pb3	CW603N
	CuZn37Pb2	CW606N
	CuZn38Pb2	CW608N
	CuZn39Pb0,5	CW610N
	CuZn39Pb3	CW614N
	CuZn40Pb2	CW617N
	CuZn35Pb1,5	CW625N
	CuZn33Pb1,5	CW626N
	CuZn38As	CW511L
	CuZn42	CW510L
Lengths	3 eller 4 m. Other lengths on request	
Tolerances	according to EN 12168	



Dimensions on request



On request

BRASS - FLAT BARS

Flat bars, Drawn / extruded

Alloys: CuZn40Pb2 - CW617N / CuZn39Pb3 - CW614N

Norm: EN 12167

Dim.	kg/m	Length		Dim.	kg/m	Length		Dim.	kg/m	Length	
mm		3000 mm	4000 mm	mm		3000 mm	4000 mm	mm		3000 mm	4000 mm
4 x 2,0	0,068	▲	▲	15 x 2,0	0,255	●	▲	30 x 12,0	3,060	▲	▲
6 x 1,5	0,076	▲	▲	15 x 3,0	0,383	▲	▲	30 x 15,0	3,825	●	▲
6 x 2,0	0,102	▲	▲	15 x 4,0	0,510	▲	▲	30 x 20,0	5,100	●	▲
6 x 2,5	0,127	▲	▲	15 x 5,0	0,638	●	▲	30 x 25,0	6,375	▲	▲
6 x 3,0	0,153	▲	▲	15 x 6,0	0,765	▲	▲	35 x 2,0	0,650	▲	▲
6 x 4,0	0,200	▲	▲	15 x 8,0	1,020	▲	▲	35 x 3,0	0,893	▲	▲
6 x 5,0	0,260	▲	▲	15 x 10,0	1,275	▲	▲	35 x 4,0	1,190	▲	▲
7 x 2,0	0,119	▲	▲	15 x 12,0	1,530	▲	▲	35 x 5,0	1,488	▲	▲
7 x 3,0	0,178	▲	▲	20 x 2,0 *	0,340	▲	▲	35 x 6,0	1,785	▲	▲
7 x 5,0	0,300	▲	▲	20 x 3,0	0,510	●	▲	35 x 8,0	2,380	▲	▲
8 x 2,0	0,136	▲	▲	20 x 4,0	0,680	▲	▲	35 x 10,0	2,975	●	▲
8 x 2,5	0,170	▲	▲	20 x 5,0	0,850	●	▲	35 x 15,0	4,463	▲	▲
8 x 3,0	0,204	▲	▲	20 x 6,0	1,020	▲	▲	35 x 20,0	5,950	▲	▲
8 x 4,0	0,270	▲	▲	20 x 8,0	1,360	●	▲	35 x 25,0	7,438	▲	▲
8 x 5,0	0,340	▲	▲	20 x 10,0	1,700	●	▲	40 x 2,0	0,680	▲	▲
8 x 6,0	0,408	▲	▲	20 x 12,0	2,040	●	▲	40 x 3,0 *	1,020	▲	▲
9 x 2,5	0,191	▲	▲	20 x 15,0	2,550	●	▲	40 x 4,0 *	1,360	●	▲
10 x 2,0	0,170	●	▲	25 x 2,0	0,425	▲	▲	40 x 5,0	1,700	●	▲
10 x 3,0	0,255	●	▲	25 x 3,0	0,638	▲	▲	40 x 6,0	2,040	●	▲
10 x 4,0	0,340	●	▲	25 x 4,0	0,850	▲	▲	40 x 8,0	2,720	●	▲
10 x 5,0	0,425	▲	▲	25 x 5,0	1,063	▲	▲	40 x 10,0	3,400	●	▲
10 x 6,0	0,510	▲	▲	25 x 6,0	1,275	●	▲	40 x 12,0	4,080	●	▲
10 x 8,0	0,680	▲	▲	25 x 8,0	1,700	●	▲	40 x 15,0	5,100	●	▲
12 x 2,0	0,204	▲	▲	25 x 10,0	2,125	▲	▲	40 x 20,0	6,800	●	▲
12 x 3,0	0,306	▲	▲	25 x 12,0	2,550	▲	▲	40 x 25,0	8,500	▲	▲
12 x 4,0	0,410	▲	▲	25 x 15,0	3,188	●	▲	40 x 30,0	10,200	●	▲
12 x 5,0	0,510	▲	▲	25 x 20,0	4,250	▲	▲	45 x 3,0	1,148	▲	▲
12 x 6,0	0,612	▲	▲	30 x 2,0	0,510	▲	▲	45 x 4,0	1,530	▲	▲
12 x 8,0	0,816	▲	▲	30 x 3,0 *	0,765	●	▲	45 x 6,0	2,295	▲	▲
12 x 10,0	1,020	▲	▲	30 x 4,0 *	1,020	▲	▲	45 x 8,0	3,060	▲	▲
14 x 2,0	0,238	▲	▲	30 x 5,0	1,275	●	▲	45 x 10,0	3,825	▲	▲
14 x 3,0	0,357	▲	▲	30 x 6,0	1,530	●	▲	45 x 20,0	7,650	▲	▲
14 x 4,0	0,480	▲	▲	30 x 8,0	2,040	●	▲	45 x 25,0	9,563	▲	▲
14 x 5,0	0,600	▲	▲	30 x 10,0	2,550	●	▲	45 x 30,0	11,475	▲	▲

Length tolerances

-0/+50 mm

● = Stock

▲ = On request



BRASS - FLAT BARS

Flat bars, Drawn

Alloy: CuZn40Pb2 - **CW617N** / CuZn39Pb3 - **CW614N**

Norm: EN 12167

Dim.	kg/m	Length		Dim.	kg/m	Length		Dim.	kg/m	Length	
mm		3000 mm	4000 mm	mm		3000 mm	4000 mm	mm		3000 mm	4000 mm
50 x 2	0,850	▲	▲	60 x 45	22,950	▲	▲	80 x 12	8,160	▲	▲
50 x 3 *	1,275	●	▲	60 x 55	28,080	▲	▲	80 x 15	10,200	▲	▲
50 x 4	1,700	▲	▲	65 x 5	2,760	▲	▲	80 x 20	13,600	▲	▲
50 x 5	2,125	●	▲	65 x 6	3,315	▲	▲	80 x 25	17,000	▲	▲
50 x 6	2,550	▲	▲	65 x 8	4,420	▲	▲	80 x 30	20,400	▲	▲
50 x 8	3,400	●	▲	65 x 10	5,520	▲	▲	80 x 40	27,200	●	▲
50 x 10	4,250	●	▲	65 x 12	6,630	▲	▲	80 x 50	34,000	▲	▲
50 x 12	5,100	▲	▲	65 x 20	11,050	▲	▲	80 x 60	40,800	▲	▲
50 x 15	6,375	●	▲	65 x 25	13,812	▲	▲	85 x 40	28,911	▲	▲
50 x 20	8,500	●	▲	65 x 30	16,575	▲	▲	90 x 5	3,825	▲	▲
50 x 25	10,625	●	▲	65 x 35	19,337	▲	▲	90 x 8	6,120	▲	▲
50 x 30	12,750	●	▲	65 x 44	24,311	▲	▲	90 x 10	7,650	▲	▲
50 x 35	14,875	▲	▲	70 x 4	2,380	▲	▲	90 x 12	9,180	▲	▲
50 x 40	17,000	▲	▲	70 x 5	2,975	▲	▲	90 x 15	11,475	▲	▲
55 x 7	3,271	▲	▲	70 x 6	3,570	▲	▲	90 x 20	15,300	▲	▲
55 x 8	3,740	▲	▲	70 x 8	4,760	▲	▲	90 x 25	19,125	▲	▲
55 x 10	4,675	▲	▲	70 x 10	5,950	▲	▲	90 x 30	22,960	▲	▲
55 x 12	5,610	▲	▲	70 x 12	7,140	▲	▲	90 x 35	26,780	▲	▲
55 x 15	7,012	▲	▲	70 x 15	8,925	●	▲	90 x 40	30,600	▲	▲
55 x 20	9,350	▲	▲	70 x 20	11,900	▲	▲	90 x 50	38,250	▲	▲
55 x 25	11,690	▲	▲	70 x 25	14,875	▲	▲	100 x 5	4,250	●	▲
60 x 3	1,530	▲	▲	70 x 30	17,850	▲	▲	100 x 6	5,100	▲	▲
60 x 4	2,040	▲	▲	70 x 40	23,800	▲	▲	100 x 8	6,800	▲	▲
60 x 5	2,550	▲	▲	70 x 45	26,775	▲	▲	100 x 10	8,500	●	▲
60 x 6	3,060	●	▲	70 x 50	29,750	▲	▲	100 x 12	10,200	▲	▲
60 x 8	4,080	▲	▲	70 x 55	32,725	▲	▲	100 x 15	12,750	▲	▲
60 x 10	5,100	●	▲	70 x 60	35,710	●	▲	100 x 20	17,000	●	▲
60 x 12	6,120	▲	▲	75 x 5	3,187	▲	▲	100 x 25	21,250	▲	▲
60 x 15	7,650	▲	▲	75 x 20	12,750	▲	▲	100 x 30	25,500	●	▲
60 x 20	10,200	▲	▲	80 x 4	2,720	▲	▲	100 x 40	34,000	▲	▲
60 x 25	12,750	▲	▲	80 x 5	3,400	▲	▲	100 x 50	42,500	▲	▲
60 x 30	15,300	●	▲	80 x 6	4,080	▲	▲	100 x 60	51,000	▲	▲
60 x 35	17,850	▲	▲	80 x 8	5,440	▲	▲				
60 x 40	20,400	▲	▲	80 x 10	6,800	●	▲				

Length tolerances

-0/+50 mm

● = Stock

▲ = On request



BRASS - FLAT BARS

Flat bars

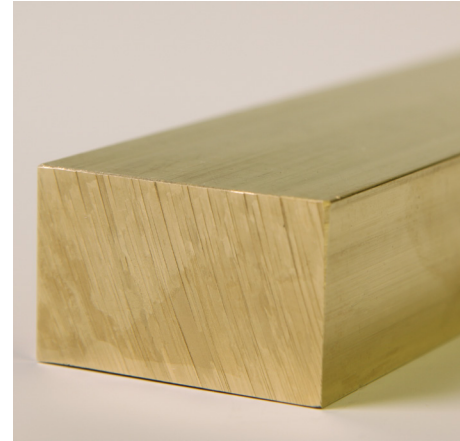
Alloy: CuZn40Pb2 - **CW617N** / CuZn39Pb3 - **CW614N**

Norm: EN 12167

Dim. mm	kg/m	Length	
		3000 mm	4000 mm
110 x 20	18,700	▲	▲
110 x 30	28,050	▲	▲
110 x 35	32,725	▲	▲
120 x 10	10,200	▲	▲
120 x 12	12,240	▲	▲
120 x 15	15,300	▲	▲
120 x 20	20,400	▲	▲
120 x 25	25,500	●	▲
120 x 30	30,600	▲	▲
120 x 40	40,800	▲	▲
120 x 50	51,000	▲	▲
140 x 20	23,800	▲	▲
140 x 30	35,700	▲	▲
150 x 10	12,750	▲	▲
150 x 12	15,300	▲	▲
150 x 15	19,125	▲	▲
150 x 20	25,500	▲	▲
150 x 25	31,875	▲	▲
150 x 30	38,250	▲	▲
150 x 40	51,000	▲	▲
150 x 50	63,750	▲	▲
200 x 10	17,000	▲	▲
200 x 12	20,400	▲	▲
200 x 15	25,500	▲	▲
200 x 20	34,000	▲	▲
200 x 30	51,000	▲	▲
200 x 40	68,000	▲	▲
200 x 50	85,000	▲	▲
250 x 20	42,500	▲	▲

Length tolerances

-0/+50 mm



Other dimensions on request

● = Stock

▲ = On request

BRASS - SHEETS

Sheets CuZn37 (MS 63 - CW508L)



Alloy for deep drawing and punching

Norm: EN 1652

Thickness	kg/pcs.	1000 x 2000 mm			1250 x 2500 mm	foil 1000 x 2500 mm	1000x3000 mm
mm		Soft	1/2 hard	Hard	1/2 Hard	1/2 Hard	1/2 Hard
0,20	3,36	▲	▲	▲	▲	▲	▲
0,30	5,04	▲	▲	▲	▲	▲	▲
0,40	6,72	▲	▲	▲	▲	▲	▲
0,50	8,40	●	●	▲	▲	▲	▲
0,55	9,24	▲	▲	▲	▲	▲	▲
0,60	10,08	●	▲	▲	▲	▲	▲
0,65	10,92	▲	▲	▲	▲	▲	▲
0,70	11,76	●	●	▲	▲	▲	▲
0,80	13,44	●	●	▲	▲	▲	▲
0,90	15,12	▲	▲	▲	▲	▲	▲
1,00	16,80	●	●	▲	●	●	▲
1,20	20,16	●	▲	▲	▲	▲	▲
1,25	21,00	▲	●	▲	▲	▲	▲
1,50	25,20	●	●	▲	●	●	▲
2,00	33,60	●	●	▲	●	●	●
2,50	42,00	▲	●	▲	▲	▲	▲
3,00	50,40	▲	●	▲	●	▲	▲
4,00	67,20	●	●	▲	▲	▲	▲
5,00	84,00	▲	●	▲	▲	▲	▲
6,00	100,80	▲	●	▲	▲	▲	▲
8,00	134,40	▲	●	▲	▲	▲	▲
10,00	168,00	▲	●	▲	▲	▲	▲
12,00	201,60	▲	▲	▲	▲	▲	▲
15,00	252,00	▲	▲	▲	▲	▲	▲
20,00	336,00	▲	▲	▲	▲	▲	▲
25,00	420,00	▲	▲	▲	▲	▲	▲



Brass Sheets CuZn20 (CW503L)



Thickness	1000 x 2000 mm Soft	1000 x 2500 mm 1/2 Hard
0.8	●	●
1.0	●	●
1.2	●	
1.5		●

Other dimensions and alloys
on request

● = Stock

▲ = On request



Plates CuZn39Pb2 (CW612N)



Stress relieved

Norm: EN 1652

Thickness mm	kg/pcs.	1020 x 3020 mm Hard as rolled
12	315,00	•
15	395,00	•
20	524,00	•
25	655,00	•
30	786,00	•
35	917,00	•
40	1048,00	•
50	1309,00	•
60	1571,00	•
80	2095,00	•
100	2619,00	•



We offer plates at fixed dimensions

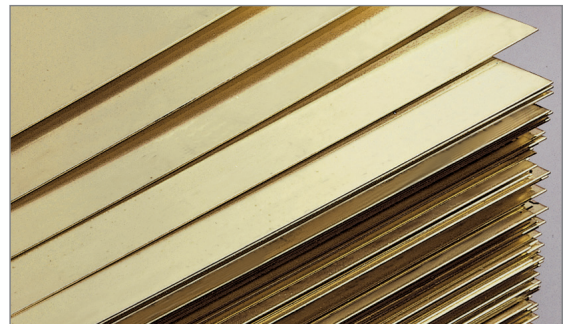
Sheets CuZn39Pb2 (CW612N)



Engraving quality

Norm: EN 1652

Thickness mm	kg/pcs.	600 x 2000 mm Hard
0,20	3,36	▲
0,30	5,04	▲
0,40	6,72	▲
0,50	8,40	▲
0,55	9,24	▲
0,60	10,08	▲
0,65	10,92	▲
0,70	11,76	▲
0,80	13,44	▲
0,90	15,12	▲
1,00	16,80	▲
1,20	20,16	▲
1,25	21,00	▲
1,50	25,20	▲
2,00	33,60	▲
2,50	42,00	▲
3,00	50,40	▲
4,00	67,20	▲
5,00	84,00	▲



• = Stock

▲ = On request

Strips



Norm: EN 1652

Thickness mm	Width mm	Hardness			
		Soft	1/2 hard	Hard	Extra hard
0,1 - 0,2	10 - 700	▲	▲	▲	▲
0,2 - 1,2	10 - 1000	▲	▲	▲	▲
1,2 - 2,0	14 - 1000	▲	▲	▲	▲
2,0 - 3,0	60 - 1000	▲	▲	▲	▲
3,0 - 4,0	60 - 700	▲	▲	▲	▲

Most common alloys

DIN EN	CEN
CuZn5	CW500L
CuZn10	CW501L
CuZn15	CW502L
CuZn20	CW503L
CuZn28	-
CuZn30	CW505L
CuZn33	CW506L
CuZn36	CW507L
CuZn37	CW508L
CuZn39Pb2	CW612W
CuZn40	CW617N



GS1 Surface Quality

GS1 is a skin passed material, meaning that it has been lightly rolled once. It has a bright and polished appearance that is specially designed for applications where aesthetics are very important, such as silverware, decorative objects, etc.

The GS1 treatment is applied to brass sheets and strips.

Size range

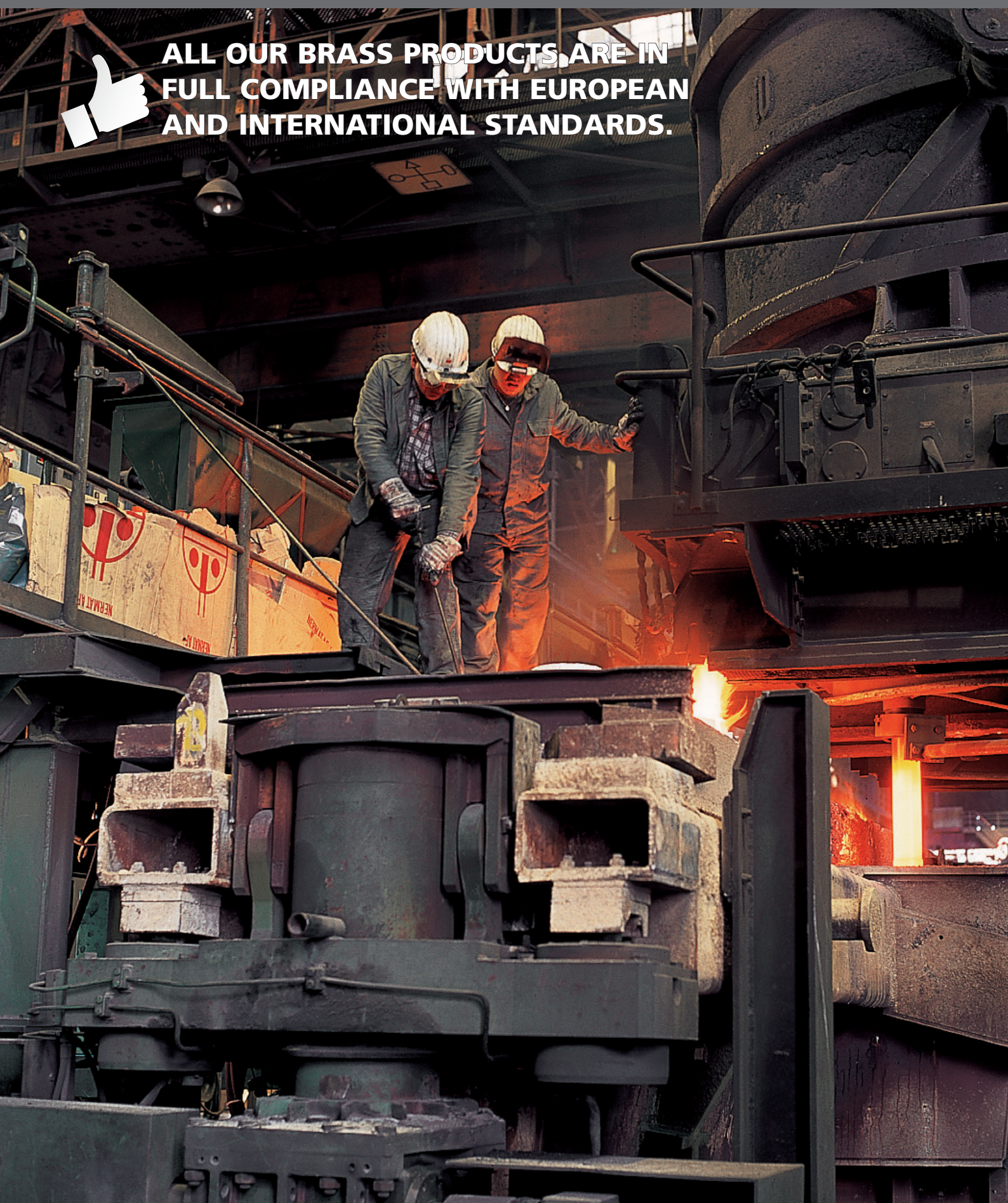
Thickness	≤ 1,5 mm
Width	≤ 1000 mm

● = Stock

▲ = On request



**ALL OUR BRASS PRODUCTS ARE IN
FULL COMPLIANCE WITH EUROPEAN
AND INTERNATIONAL STANDARDS.**



Tinning

Tinning in compliance with EN 13148

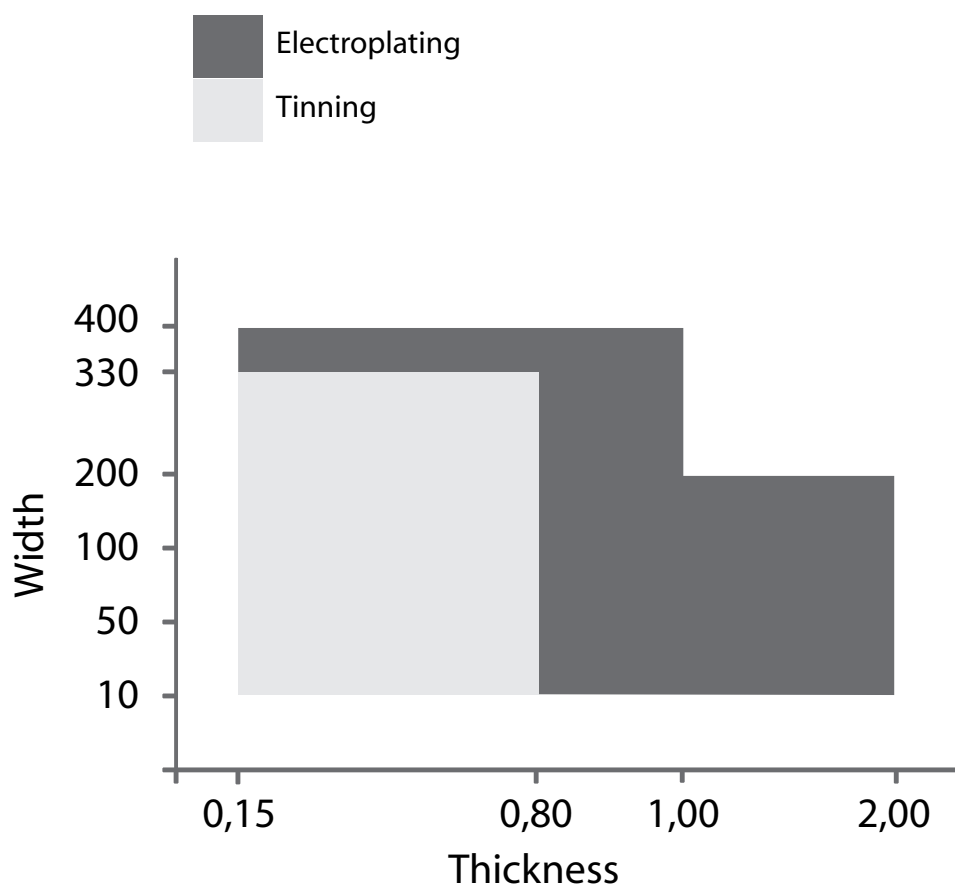
Tinning meets the RoHS European Directive (restrictions of the use of certain hazardous substances in the construction of various types of electrical and electronic equipment).

Layer thickness 0,6-20,0 µm.

Electroplating

Hot tinn plating is performed on strips that have a width not greater than 300 mm and a thickness between 0,15 and 1,5 mm.

At dimesions greater than these, electroplating can be performed as illustrated in the diagram below:



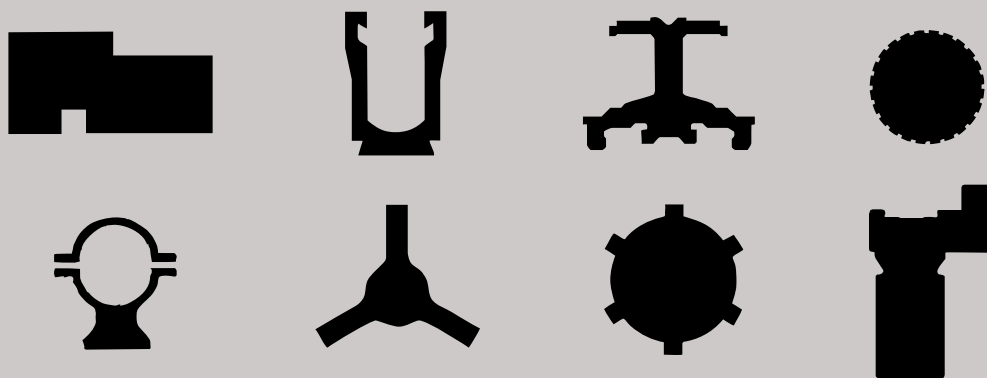
Profiles for the industry

EN 12167

Application	Depending on the shape and the application
Alloys	CuZn39Pb3 / CW614N CuZn40Pb2 / CW617N CuZn41Pb1Al / CW620N
Lengths	between 3000 - 4000 mm
Tolerances	ISO J13 (drawn) ISO J14 - ISO J15 (extruded)
Packaging	wooden cases

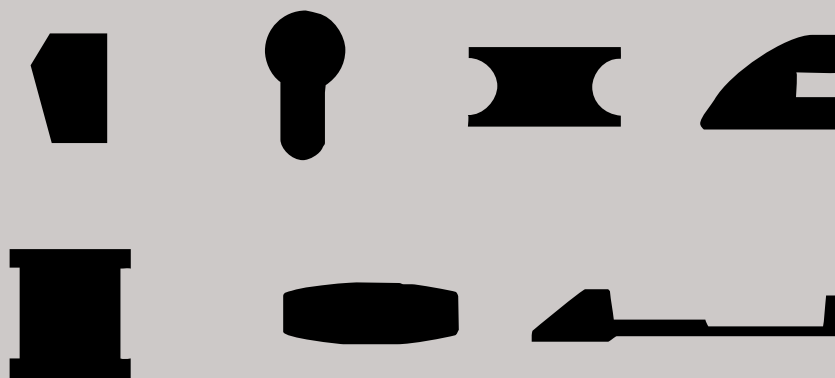


Examples



Lock profiles

Examples



Application	Depending on the shape and the application
Alloys	CuZn39Pb3 / CW614N CuZn40Pb2 / CW617N CuZn40Pb2Al / CW618N CuZn41Pb1Al / CW620N
Lengths	Lengths from 3000 - 4000 mm
Tolerances	ISO J13 (drawn) ISO J14 - ISO J15 (extruded)
Packaging	Bundles or wooden cases

BRASS - ROUND TUBES

Round tubes



Alloy: CuZn37 (MS 63 - CW508L)

in straight lengths of 5000 mm

Norm: EN 12449

Dimension mm	Hardness	kg/m	Stock	Dimension mm	Hardness	kg/m	Stock
3,0 x 0,45	Hard	0,031	▲	25,0 x 0,45	Hard	0,295	▲
4,0 x 1,0	Hard	0,081	●	25,0 x 1,0	Hard	0,648	●
5,0 x 1,0	Hard	0,108	●	25,0 x 1,5	Hard	0,952	●
6,0 x 0,45	Hard	???	●	26,0 x 1,0	Hard	0,670	▲
6,0 x 1,0	Hard	0,135	●	25,0 x 2,0	Hard	1,242	▲
7,0 x 1,0	Hard	0,162	▲	28,0 x 1,5	Hard	1,073	●
8,0 x 0,9	1/2 Hard	0,173	▲	30,0 x 1,0	Hard	0,783	▲
8,0 x 1,0	Hard	0,189	●	30,0 x 1,5	Hard	1,154	●
9,5 x 0,9	1/2 Hard	0,209	▲	30,0 x 2,0	Hard	1,512	▲
9,5 x 1,0	Hard	0,230	▲	32,0 x 1,0	Hard	0,837	▲
10,0 x 1,0	1/2 Hard	0,243	▲	32,0 x 1,5	Hard	1,235	▲
10,0 x 1,0	Hard	0,243	▲	32,0 x 2,0	Hard	1,620	▲
10,0 x 1,5	1/2 Hard	0,344	●	35,0 x 1,0	Hard	0,918	▲
10,0 x 1,5	Hard	0,344	▲	35,0 x 1,5	Hard	1,357	●
11,0 x 1,5	Hard	0,385	▲	38,0 x 1,0	Hard	0,999	▲
12,0 x 1,0	1/2 Hard	0,297	▲	38,0 x 1,5	Hard	1,478	▲
12,0 x 1,0	Hard	0,297	●	38,0 x 2,0	Hard	1,944	▲
12,7 x 1,0	1/2 Hard	0,316	▲	40,0 x 1,0	Hard	1,053	▲
13,0 x 1,0	Hard	0,324	▲	40,0 x 2,0	Hard	2,052	▲
13,0 x 1,5	Hard	0,466	●	42,0 x 1,0	Hard	1,107	▲
13,0 x 2,0	Hard	0,588	●	42,0 x 2,0	Hard	2,160	▲
14,0 x 1,0	Hard	0,351	▲	44,5 x 1,25	1/2 Hard	1,460	▲
15,0 x 1,0	Hard	0,378	●	45,0 x 2,0	Hard	2,322	●
15,0 x 1,5	Hard	0,547	●	50,0 x 1,0	Hard	1,323	▲
16,0 x 1,0	1/2 Hard	0,405	▲	50,0 x 1,5	Hard	1,964	▲
16,0 x 1,5	Hard	0,587	●	50,0 x 2,0	Hard	2,592	▲
16,0 x 2,0	Hard	0,756	●	54,0 x 1,25	Hard	1,761	●
17,0 x 1,5	Hard	0,628	▲	55,0 x 1,5	Hard	2,167	▲
18,0 x 1,0	1/2 Hard	0,459	▲	60,0 x 0,45	Hard	0,067	●
18,0 x 1,0	Hard	0,459	▲	60,0 x 2,0	Hard	3,132	▲
19,0 x 1,0	1/2 Hard	0,486	▲	60,0 x 3,0	Hard	4,617	▲
19,0 x 1,0	Hard	0,486	▲	70,0 x 2,0	Hard	3,672	▲
20,0 x 1,0	Hard	0,513	▲	100,0 x 2,0	Hard	5,292	▲
20,0 x 1,5	Hard	0,750	●	100,0 x 3,0	Hard	7,857	▲
20,0 x 2,0	Hard	0,972	▲				
22,0 x 1,0	1/2 Hard	0,567	●				
22,0 x 1,0	Hard	0,567	▲				
22,0 x 1,5	Hard	0,830	●				

Other dimensions and alloys on request.

● = Stock

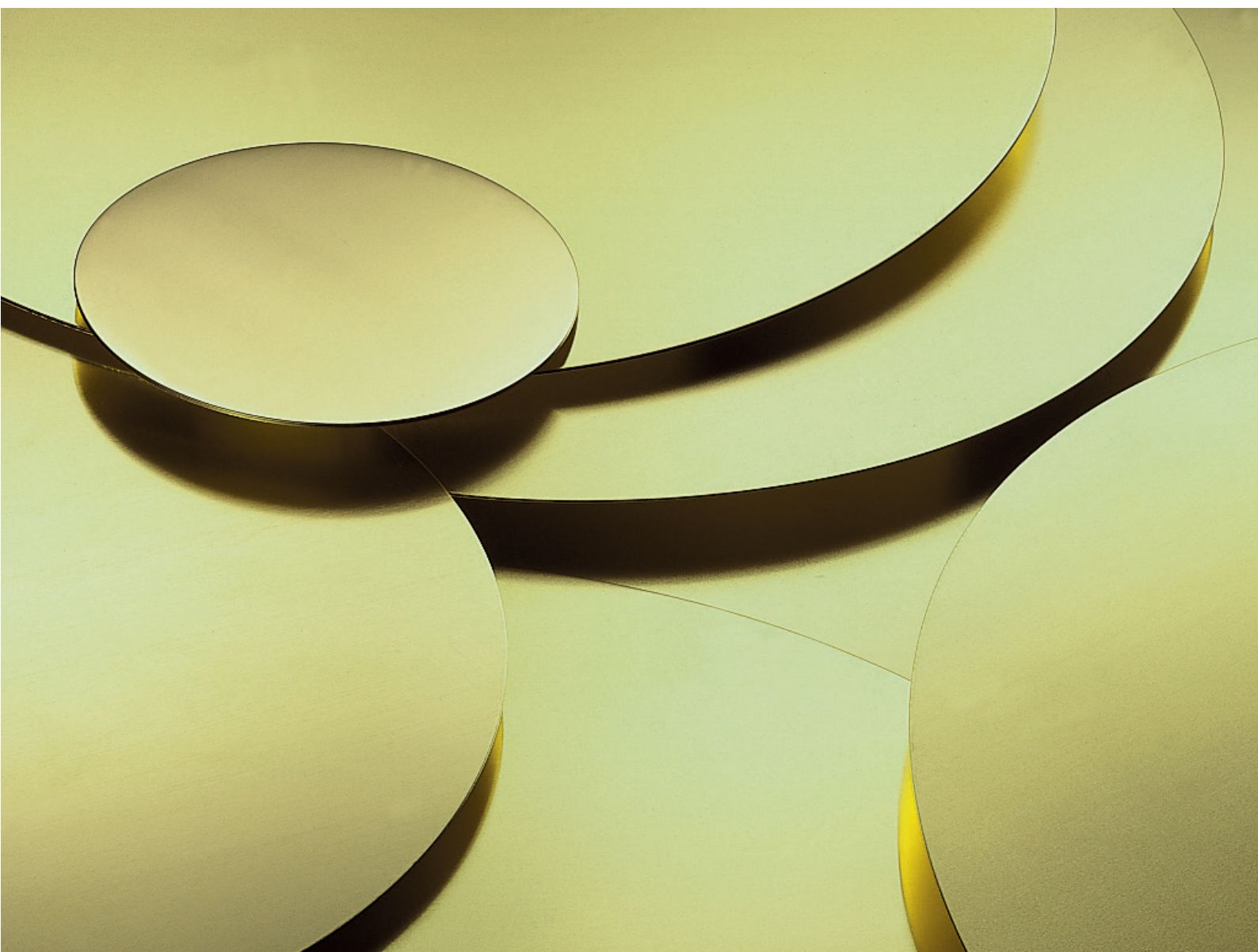
▲ = On request

Disc CuZn37 (MS 63 - CW508L (CW612N)



Norm: EN 1652

Thickness	Dimension
mm	mm
8 - 200	150 - 1500



• = Stock

▲ = On request

BRASS - TECHNICAL INFORMATION

Standard				
EN	ISO	Sweden	Denmark	Germany
Standard	Type	SS	DS	DIN
CW500L	CuZn5			
CW501L	CuZn10			
CW502L	CuZn15	5112	5112	CuZn15
CW503L	CuZn20	5114	5114	CuZn20
CW504L	CuZn28			
CW505L	CuZn30	5122	5122	CuZn30
CW506L	CuZn33			
CW508L	CuZn37	5150	5150	CuZn37
CW509L	CuZn40			
CW511L	CuZn40			
CW600N	CuZn35Pb1			
CW601N	CuZn35Pb2			
CW602N	CuZn36Pb2As			
CW603N	CuZn36Pb3			
CW606N	CuZn37Pb2			
CW607N	CuZn38Pb1	5165	5165	CuZn38Pb1,5
CW608N	CuZn38Pb2			
CW612N	CuZn39Pb2			
CW614N	CuZn39Pb3	5170	5170	CuZn39Pb3
CW617N	CuZn40Pb2	5168	5138	CuZn40Pb2
CW618N	CuZn40Pb2Al			
CW620N	CuZn41Pb1Al			
CW723R	CuZn40Mn2Fe1l			
CW511L	CuZn38As			
CW625N	CuZn35Pb1,5AlAs			
CW626N	CuZn33Pb1,5AlAs			

Norm		
Description	Alloy	Norm
Brass brar, drawn	CuZn39Pb3	EN 12164
Brass bar, drawn	CuZn36Pb3	EN 12164
Brass brar, drawn	CuZn38Pb2	EN 12164
Brass bar, drawn	CuZn36Pb2As	EN 12164
Brass brar, drawn	CuZn40Pb2	EN 12164
Brass hollow bars	all	EN 12164
Brass flat bars, drawn	CuZn40Pb2	EN 12167
Brass profiles	CuZn41Pb1Al	EN 12167
Brass wire	all	EN 12166
Brass plate, Industry	CuZn37	EN 1652
Brass plate, Industry	CuZn39Pb2	EN 1652
Brass strip, Industry	CuZn37	EN 1652
Brass roundel, Industry	CuZn37	EN 1652
Tinning		EN 13148
Electroplating		EN 14436
Brass tubes	CuZn37	EN 12449

composition													
Material		Composition in %											
EN	ISO		Cu	Zn	Al	As	Fe	Mn	Ni	Pb	Sn	other	Kg/dm ³
CW500L	CuZn5	Min.	94,00										
		Max.	96,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,9
CW501L	CuZn10	Min.	89,00										
		Max.	91,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,8
CW502L	CuZn15	Min.	84,00										
		Max.	86,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,8
CW503L	CuZn20	Min.	79,00										
		Max.	81,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,7
CW504L	CuZn28	Min.	71,00										
		Max.	73,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,5
CW505L	CuZn30	Min.	69,00										
		Max.	71,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,5
CW506L	CuZn33	Min.	66,00										
		Max.	68,00	rest	0,02		0,05		0,3	0,05	0,1	0,1	8,5
CW508L	CuZn37	Min.	62,00										
		Max.	64,00	rest	0,05		0,1		0,3	0,1	0,1	0,1	8,4
CW509L	CuZn40	Min.	59,50										
		Max.	61,50	rest	0,05		0,2		0,3	0,3	0,2	0,2	8,4
CW511L	CuZn40	Min.	59,00										
		Max.	63,00	rest			0,07			0,3			
CW600N	CuZn35Pb1	Min.	62,50							0,8			
		Max.	64,00	rest	0,05		0,1		0,3	1,6	0,1	0,1	8,5
CW601N	CuZn35Pb2	Min.	62,00							1,6			
		Max.	63,50	rest	0,05		0,1		0,3	2,5	0,1	0,1	8,5
CW602N	CuZn36Pb2As	Min.	61,00			0,02				1,7			
		Max.	63,00	rest	0,05	0,15	0,1	0,1	0,3	2,8	0,1	0,2	8,5
CW603N	CuZn36Pb3	Min.	60,00							0,1			
		Max.	62,00	rest	0,05		0,2		0,3	0,7	0,1	0,1	8,5
CW606N	CuZn37Pb2	Min.	61,00							1,6			
		Max.	62,00	rest	0,05		0,2		0,3	2,5	0,2	0,2	8,5
CW607N	CuZn38Pb1	Min.	60,00							0,8			
		Max.	61,00	rest	0,05		0,2		0,3	1,6	0,2	0,2	8,5
CW608N	CuZn38Pb2	Min.	60,00							1,6			
		Max.	61,00	rest	0,05		0,2		0,3	2,5	0,2	0,2	8,5
CW612N	CuZn39Pb2	Min.	58,50							1,5			
		Max.	60,00	rest	0,1		0,4		0,3	2,5	0,2	0,2	8,5
CW614N	CuZn39Pb3	Min.	57,00							2,5			
		Max.	59,00	rest	0,05		0,3		0,3	3,5	0,3	0,2	8,5
CW617N	CuZn40Pb2	Min.	57,00							1,5			
		Max.	59,00	rest	0,1		0,4		0,3	2,5	0,3	0,2	8,5
CW618N	CuZn40Pb2Al	Min.	57,00		0,05					1,6			
		Max.	59,00	rest	0,5		0,3		0,3	3	0,3	0,2	8,5
CW620N	CuZn41Pb1Al	Min.	57,00		0,05					0,8			
		Max.	59,00	rest	0,5		0,3		0,3	1,6	0,3	0,2	8,5
CW723R	CuZn40Mn2Fe1	Min.	56,50				0,5	1,0					
		Max.	58,50	rest	0,1		1,5	2,0	0,6	0,5	0,3	0,4	8,5
CW625N	CuZn35Pb1, 5AlAs	Min.	61,00		0,5	0,09				1,4			
		Max.	63,00	rest	0,7	0,13	0,3	0,1	0,2	1,6	0,3	0,1	8,4
CW626N	CuZn33Pb1,5AlAs	Min.	64,00		0,8	0,09				1,4			
		Max.	66,00	rest	1,0	0,15	0,3	0,1	0,2	1,7	0,3	0,1	8,4



TERMS OF SALE AND DELIVERY

1. Validity

The present Terms of Sale and Delivery shall apply to all quotations, sales and deliveries unless otherwise agreed in writing.

Any terms of sale and delivery which may be printed on the order confirmation or to which the customer otherwise refers shall only be valid if this is expressly stated in our order confirmation.

2. Product Information

All information about weight, dimensions and quality as well as technical data and other data stated in catalogues, prospectuses and any other advertising material shall be directional and shall only be binding to the extent they form an express part of the agreement between the parties.

3. Quotations

All prices shall be subject to changes in raw material and exchange rates, delivery time subject to the goods being unsold and change of delivery time from works. If all Seller gives a written quotation which does not state a specific time stipulated for acceptance, the quotation shall lapse if acceptance has not been received by the Seller within 2 weeks from the date of quotation.

4. Quality

Buyer shall be responsible for ensuring that the technical data and the material in its entirety are suitable for his requirements.

A certificate will as agreed be enclosed in accordance with agreement. Seller will check that the certificate meets the demands for the delivery but will not check the information provided in the certificate.

5. Quantity

The total quantity delivered shall be subject to a margin of plus/minus 10% of the quantity specified. Calculation by weight, unit or length shall be in accordance with generally accepted practice.

6. Orders and agreement

In order to be binding on Seller, an order shall be confirmed in writing by Seller, and only Seller's Terms of Sale and Delivery shall apply to the execution of the order.

If Buyer has any objections to the contents of the order confirmation these shall be made in writing and shall be received by Seller not later than one week after the date of the order confirmation.

7. Prices and Delivery

In connection with sales from stock, the prices excl. VAT and terms of payment are stated in Seller's current price list in force at the time in question shall apply. Delivery shall be ex Seller's address.

Freight payable by Buyer shall always be invoiced by Buyer and shall not be paid in cash on receipt.

8. Payment

Seller shall receive payment on the date specified in the invoice as the final due date for payment. If such a date has not been specified payment shall be made in cash on delivery. However, Seller reserves the right to change the terms of payment if Seller receives information that Buyer's ability to pay has deteriorated. If the delivery is postponed because of Buyer's situation (claimant's default), Buyer shall nevertheless, unless otherwise notified by Seller, be under an obligation to make any payment to Seller as if delivery had been made at the agreed time. If payment is made after the due date, Seller shall be entitled to charge interest on the outstanding amount from time to time from the due date at the rate of interest stated on the invoice at any given time. Buyer shall not be entitled to offset any counterclaims against Seller which have not been recognized in writing by Seller and shall not be entitled to withhold any part of the purchase price because of counterclaims of any kind whatsoever.

9. Retention of Title

Seller shall retain title to the goods sold with the restrictions that follow from mandatory rules of law until the full purchase price plus any costs accrued have been paid to Seller or to the party to whom Seller has assigned his right.

10. Delivery

Delivery shall be made from Seller's address whether or not Seller delivers the goods sold to Buyer using his own employees or third party in accordance with a separate agreement. The time of delivery has been fixed by Seller at Seller's best estimate with the reservations made when the quotation was given/the agreement was entered into.

In connection with sale of goods from stock and standard goods, a postponement of the time of delivery by 30 days due to Seller's situation shall be regarded as delivery in due time and shall be respected to the effect that Buyer cannot exercise any remedies against Seller for this reason unless otherwise agreed.

In connection with sale of individually manufactured goods, Seller shall not be liable for any form of delay irrespective of the duration hereof to the effect that Buyer cannot exercise any remedies against Seller for this reason. Each of the parties shall, however, be entitled, without any liability, to cancel the agreement if the delay exceeds three months.

If a delay in delivery is due to Seller being in a situation as stated in Clause 15 (exemption from liability), the time of delivery shall be postponed by the time of duration of the obstacle. However, both parties shall, without any liability, be entitled to cancel the agreement if the obstacle has lasted for more than 3 months. The present provision shall apply whether or not the cause of delay occurs before or after the expiry of the agreed delivery time.

In the above case, Seller shall notify Buyer of the change in delivery time without undue delay.

11. Packaging

Packaging shall be on Buyer's account unless it is expressly stated that this has been included in the price.

Packaging may only be returned in accordance with a separate agreement.

12. Cancellation

In connection with cancellation of deliveries, Buyer shall be under an obligation to pay full compensation, including for loss of profit, and generally to indemnify Seller for all costs incurred in connection with the cancellation.

13. Product changes

Seller reserves the right to make changes to agreed specifications without notice if this can be done without any inconvenience to the Buyer.

14. Defects and Complaints

Upon delivery, Buyer shall immediately perform such inspection of the goods sold as generally accepted business practice requires. Any defects in the goods sold will, within a reasonable period of time, be remedied or a replacement delivery will be made at Seller's discretion.

If such remedial action is not taken or a replacement delivery is not made within a reasonable period of time, Buyer shall be entitled to terminate the agreement, require a reduction in the purchase price or claim damages pursuant to with the general rules of Danish law and the present Terms of Sale and Delivery.

If Buyer wants to claim a defect, Buyer shall notify Seller hereof in writing immediately after the defect has been or should have been discovered and specify the nature of the defect in the written notification. Samples of a sufficient quantity for a certain assessment of the justification of the complaints must be enclosed with complaints about the quality of the goods. If Buyer has discovered or should have discovered the defect, and he does not

submit a complaint in accordance with the above, he cannot subsequently make a claim about the defect.

If Buyer has not made a claim about the defect to Seller within 6 months from the date of delivery, he cannot subsequently claim any such defect.

If remedial action has been taken or a replacement delivery has been made, Seller's liability for defects cannot be extended to more than 1 year from the original date of delivery.

15. Limitation of Liability

A claim for damages against Seller cannot exceed the invoice amount for the product sold.

Seller shall not be liable for any consequential loss, loss of profit or any other indirect loss which follows from the agreement, including any indirect loss which has incurred as a result of delay or defects in the goods sold. The following circumstances shall result in exemption of liability for Seller if they prevent performance of the agreement or make the performance of the agreement unnecessarily onerous.

Industrial disputes and any other circumstances beyond the control of the parties such as fire, war, mobilisation or unforeseen military call-ups of an equivalent extent, requisitioning, sequestration, exchange controls, riots and civil unrest, shortage of transport possibilities, general scarcity of goods, fuel restrictions and defects in or delays in deliveries from sub-suppliers which are due to any of the circumstances set out in the present Clause. Circumstances like those set out above which occurred before the quotation was given/the agreement was entered into shall only entail exemption of liability if their effect on the performance of the agreement could not have been foreseen at the time in question.

Seller shall be under an obligation to notify Buyer in writing without undue delay should any such circumstances occur.

16. Product Liability

Seller shall only be liable for personal injury if it is proved that the injury was suffered as a result of errors or omissions on the part of Seller or other parties for whom, Seller is responsible.

Seller shall not be liable for any damage to real property or movable property.

Seller shall not be liable for any consequential loss, loss of earnings or any other indirect loss.

To the extent to which Seller may incur product liability vis-à-vis a third party, Buyer shall be under an obligation to indemnify Seller to the same extent as Seller's liability is limited in accordance with the above three sentences. If a third party makes a claim against one of the parties for liability for damages in accordance with the present Clause the party in question shall immediately notify the other party.

Seller and Buyer shall be under a mutual obligation to accept that legal proceedings are instituted against them at the court which hears claims for damages brought against one of them on the basis of damage or injury allegedly caused by the delivery.

These limitations to Seller's liability shall not apply if he has shown gross negligence.

17. Returns

Returns will only be accepted in accordance with a special agreement on this with Seller.

Unless otherwise agreed, crediting of returns shall be subject to the returns being undamaged and as for works/factory-packaged materials that they are in original, unbroken packaging.

18. Disputes

Any disputes arising between the parties shall be settled by the courts in Denmark pursuant to Danish law.





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- ✓ Part of strong financial metal groups



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