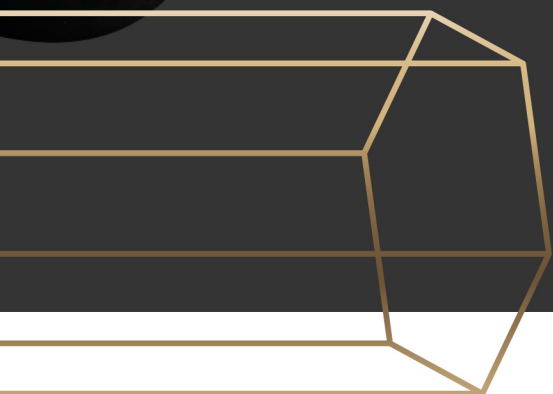




CW611N

TECHNICAL SHEET



BRASS RODS

INTERNATIONAL REFERENCES

EGM 611	EN CuZn39Pb1	DIC CEN CW611N	ASTM(CDA) C37000	AFNOR -	BS HPb591	JIS C3710
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MAIN CHARACTERISTICS

Hot stamping and free machining alloy with a higher copper content to increase ductility and cold formability and a lower lead content for specific purposes.

CHEMICAL COMPOSITION

Cu [%]	Pb [%]	Sn [%]
59,0 - 60,0	0,8 - 1,6	≤ 0,3

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PHYSICAL PROPERTIES

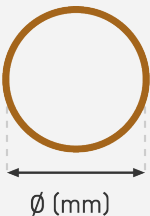
Density	8.44g/cm ³
Electrical Conductivity	13.8MS/m
Electrical Conductivity	23IACS %
Thermal Conductivity	120W/mK

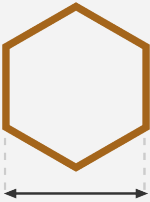
MECHANICAL PROPERTIES

Temper	Diameter / Wrench size [mm]	Tensile Strength Rm [N/mm ²]	Yeld Strength Rp0.2 [N/mm ²]	Elongation A [%]	Hardness HB
M	7 - 75	(390 - 550)	(180 - 450)	(5 - 35)	(110 - 150)

Please note: The mechanical properties are indicative only.

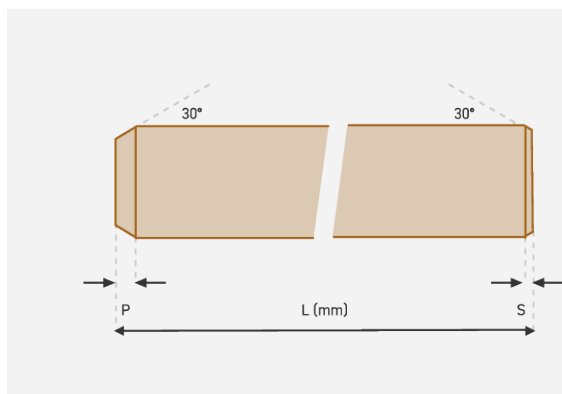
TYPES AND FORMAT AVAILABILITY

 $\varnothing$ (mm)	Nominal Diameter (mm)		Tolerances (mm)		
	>	≤	Type A (standard tolerances)	Type B	Type C
	> 7	10	+0 / -0,06	+0 / -0,036	+0 / -0,025
	10	18	+0 / -0,07	+0 / -0,043	
	18	30	+0 / -0,08	+0 / -0,052	
	30	50	+0 / -0,16	-	
	50	75	+0 / -0,16	-	

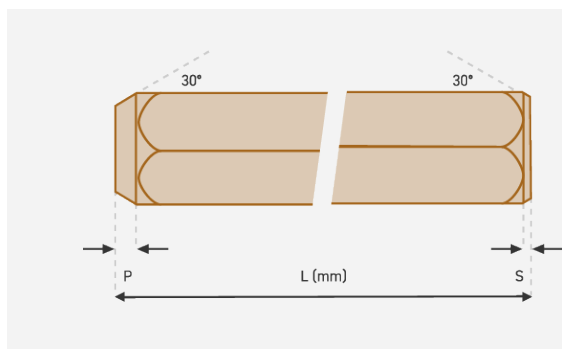
 Ch. (mm)	Width across-flats (W mm)		Tolerances (mm)	
	>	≤	Type B	
	> 7	10	+0 / -0,09	
	10	18	+0 / -0,11	
	18	30	+0 / -0,13	
	30	45	+0 / -0,16	

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SHAPES OF THE ENDS



Shaped ends of rod chamfered (mm)					
Ø		P (point)		S (chamfer)	
		min.	max.	min.	max.
7	10	2	3,5	2	3,5
10	20	2	4,5	2	4,5
20	30	3,5	6,5	3,5	6,5
30	42	4	6,5	4	6,5
43	75	6	8	6	8



Shaped ends of rod pointed (mm)					
Ch.		P (point)		S (chamfer)	
		min.	max.	min.	max.
7	10	2	3,5	0,4	1,5
10	20	2	4,5	0,5	2
20	32	3,5	6,5	0,6	2,5
32	45	5	8	1	4

Please note: The minimum and maximum measurements for the ends are indicative only. Specific requirements regarding the length of the ends must be evaluated and agreed in the time of order.

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LENGHTS AND STRAIGHTENINGS

		Lenght	
>	≤	Lenght (mm)	Tolerances (mm)
> 7	42	3050	+ 50
42	75	3050	+ 100
Maximum deviation from straightness			
>	≤	Localized over any 400 mm	Over whole lenght L of rod in metres L ≥ 1 m
> 7	50	0,4 mm	1,0 X L

		Lenght	
>	≤	Lenght (mm)	Tolerances (mm)
> 7	30	3050	+ 50
30	45	3050	+ 100
Maximum deviation from straightness			
>	≤	Localized over any 400 mm	Over whole lenght L of rod in metres L ≥ 1 m
> 7	50	0,6 mm	1,5 X L

Please note: The straightening has to be measured according to paragraph 6.5.3 of Norms EN 12164:2016).

OTHER SERVICES

All the turning rods (from Ø7 to Ø75 and from Ch.7 to Ch.45) are supplied in nominal lengths of 3000 mm, with point (P) and chamfer (S). Upon request, the product can be supplied with ends other than those indicated and with nominal lengths up to 5000 mm. the product is supplied in bundles of about 1000 kg closed by 3 or 4 metal strapping and paper between rods and metal strappings. Packaging with other characteristics must be evaluated and agreed upon when ordering.

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