

Material Datasheet: C67300

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MACHINING / HOT STAMPING BRASS RODS

C67300

High Tensile Brass

C67300 alloy combines excellent hot stamping characteristics and good machinability. It has high impact resistance and excellent wear resistance making it well suited for shaft rings, bearings, gears cams and pump parts.

MATERIAL DESIGNATION						
ASBW	International	EN	UNS	JIS	Further Restrictions	
B30	CuZn35Mn3Pb2Si1	-	C67300	-	-	

REFERENCE CHEMICAL COMPOSITION IN % (MAIN ELEMENTS)										
Material	Cu	Pb	Ni	Fe	Si	Sn	AI	Mn	Zn	Other elements
D 20	Min.58,0	0,4	-	-	0,5	-	-	2,0	Rem.	≤ 0.5 %
B30	M á x.63,0	3,0	0,25	0,5	1,5	0,3	0,25	3,5		

FABRICATION PROPERTIES

FORMING Machinability (CuZn39Pb3 = 100 %) 70 % Cold Workability Poor Hot Workability Very Good JOINING **Resistance Welding (Butt Welding)** Not recommended Inert Gas Shielded Arc Welding Fair Gas Welding (Most Commonly Oxyacetylene) Fair Not recommended Soldering Not recommended Brazing

HEAT TREATMENT	
Melting Range	885 - 920 ℃
Hot Working	640 - 770 °C
Thermal Stress Relieving	200 - 300 °C Duration: 1 - 3 h
Soft Annealing	480 – 580 °C Duration: 1 – 3 h

CORROSION RESISTANCE

This high strength brass is quite resistant to organic substances and to neutral or alkaline compounds due to alloying additions.

PRODUCT STANDARDS

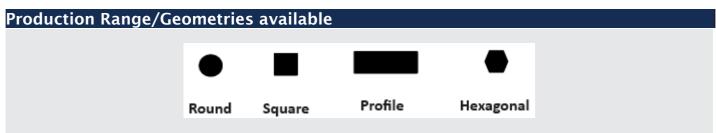
Rod	EN 12164*				
Nou	EN 12165*				
Section	EN 12167*				

*Despite of the alloy B30 is not present on the standards EN12164/65/67, ASBW B30 rods ensure all the major characteristics that are present on those standards, granting all necessary properties for a smooth and clean manufacture

Physical properties*						
Material Density [g/cm³]	Electrical C [MS/m]	onductivity [% IACS]	Thermal Conductivity [W/(m.K)]	Thermal Expansion Coefficient (0 - 300 °C) [10 ⁻⁶ /K]	Modulus of Elasticity [GPa]	
8,34	13,80	23	96	20,2	118	

* Refence values at room temperature

Mechanical properties (indicative values)						
Tensile Strength [Rm] (N/mm²)	Yield Strength [Rp0.2] (N/mm²)	Elongation (%)	Hardness (HBW)			
>460	>220	>15	>120			



For further information regarding the dimensions, tolerances and temper conditions contact us.





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