

CS 60001 72401 LA FERTE BERNARD cedex

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PKR

Material designation		Chemical composition*			
		Elements	% mean	Impurities	% max.
CuZn38Pb1		Cu	60.6	Fe	0.2
		Pb	1.25	Ni	0.3
EN 12164 / EN 12165 / EN 12167	CW607N			Sn	0.2
BS 2872 - 2874	CZ129			Al	0.05
ASTM B453	C35000				
DIN 17660	CuZn38Pb1	Zn	balance	Other	0.2

^{*} Reference values in % by weight

Properties and typical applications CW607N is a free cutting and stamping brass. It can also be cold worked. for fluids, automotive equipment, crimping, screws, bolts, etc. Connections

Physical properties at 20°C		Heat treatment		
Density (g/cm3)	8.4	Melting range (°C)	900-925	
Young modulus (GPa)	105	Hot working (°C)	650-750	
Thermal expansion coefficient (20-300°C) (10 ⁻⁶ /K)	21	Annealing temperature (°C)*		
Thermal conductivity (W/m.K)	117	Stress relieving treatment (°C)**		
Thermal capacity (J/Kg.K)	377	* Annealing treatment of a material leads to reduce		
Electrical conductivity (% I.A.C.S.)	26	hardness and increase its ductility.		
		** Stress relieving treatment allows to eliminate the stresses present in the material in ordrer to avoid corrosion cracking.		

Forming		Joining		
Hot forming	Excellent	Soldering		
Cold forming	Good	Soft	Excellent	
Machinability	85% (Ref: CuZn39Pb3 = 100%)	Hard	Good	
Corrosion resistance				
Free-cutting brasses generally have	ee-cutting brasses generally have good resistance to corrosion in organic Welding			
materials and neutral or alkaline compounds. However, they may present a problem of cracking corrosion in an aggressive environment in the presence of internal stresses, but also a risk of dezincification in the presence of hot and acidic water.		Gaz welding	Not recommanded	
			Not recommanded	
		Resistance welding	Not recommanded	

Mechanical properties according to EN12164							
Condition	Diameter [mm]		Rp0,2 [Mpa]	Rm [Mpa]	A(%)	Hardness HB	
of material	from	to	min. or max.	min.	min.	naruness no	
M	A	λII	As extruded - without specific mechan		ific mechanical prop	cal properties	
R360	6	b	80	< 300	360	20	-
H070			00	-	-	-	70-100
R410	6	40	> 230	410	12	-	
H100		40	-	-	-	100-145	
R500	- 6	500	14	> 350	500	8	-
H120		14	-	-	-	> 120	

Fabrication range

Available forms:









Do not hesitate to contact us for further information regarding the dimensions, tolerances and metallurgical conditions. Our technical teams are by your side to help you succeed in your projects.

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