

CS 60001 72401 LA FERTE BERNARD cedex France Tél : +33 (0)2 43 60 60 65 Fax : +33 (0)2 43 93 55 03 info@m-lego.com

PKM

Material designation		Cł	Chemical composition*			
		Elements	% mean	Impurities	% max.	
CuZn38Pb2		Cu	60.4	Fe	0.2	
		Pb	2	Ni	0.3	
EN 12164 / EN 12165 / EN 12167	CW608N			Sn	0.2	
				Al	0.05	
		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.	Connections				
for fluids, automotive equipment, crimping, screws, bolts, etc.					

Physical properties at 20°C	Heat treatment		
Density (g/cm3)	8.4	Melting range (°C)	900-925
Young modulus (GPa)	102	Hot working (°C)	650-750
Thermal expansion coefficient (20-300°C) (10 ⁻⁶ /K)	21	Annealing temperature (°C)*	450-600
Thermal conductivity (W/m.K)	110	Stress relieving treatment (°C)**	250-350
Thermal capacity (J/Kg.K)	377	* Annealing treatment of a material leads to reduce	
Electrical conductivity (% I.A.C.S.)	24	hardness and increase its ductility.	
		** Stress relieving treatment allows to eliminate a stresses present in the material in ordrer to avoid corrosion cracking.	

	Forming	Joining		
Hot forming	Excellent	Soldering		
Cold forming	Fair	Soft	Excellent	
Machinability	90% (Ref: CuZn39Pb3 = 100%)	Hard	Good	
Corrosion resistance				
Free-cutting brasses gene	rally 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.			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.	naturiess nd	
М	All		As extr	As extruded - without specific mechanical properties			
R360	6	6	80	< 300	360	20	-
H070	0	00	-	-	-	70-100	
R410	6	40	> 230	410	12	-	
H100		0 40	40	-	-	-	100-145
R500	6	6 14	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. <u>info@m-lego.com</u>