

D13

nents Fe	% mean 4.7	Impurities Pb	% max. 0.05
-	4.7	Pb	0.05
			0.00
/In 🔰	1.8	Sn	0.1
AI	13	Si	0.1
		Zn	0.5
		Ni	0.1
Cu	Balance	Others	0.5
	Al Cu	Al 13	Al 13 Si Zn Ni Cu Balance Others

* Reference values in % by weight

Properties and typical applications

C62500 is an aluminium bronze with high mechanical strength, suitable for manufacturing of parts such as bushings, slides, wear strips...

Physical properties at 20°C	Heat treatment		
Density (g/cm3)	7.2	Melting range (°C) 10	
Young modulus (GPa)	110	Hot working (°C) 8	
Thermal expansion coefficient (20-300°C) (10 ⁻⁶ /K)	16	Annealing temperature (°C)* 6	
Thermal conductivity (W/m.K)	45	45 Stress relieving treatment (°C)**	
Thermal capacity (J/Kg.K)	420	* Annealing treatment of a material leads to reduce hardness and increase its ductility.	
Electrical conductivity (% I.A.C.S.)	10		
		** Stress relieving treatment allows to eliminate th stresses present in the material in ordrer to avoid corrosion cracking.	

Forming		Joining		
Hot forming	Good	Soldering		
Cold forming	Not recommanded	Soft	Not recommanded	
Machinability	40% (CuZn39Pb3 = 100%)	Hard	Fair	
Corrosion resistance		Welding		
The bronzes of aluminum have a high corrosion resistance, in particular in the sea environments.		Gaz welding	Not recommanded	
		Inert gas shielded arc welding	Good	
		Resistance welding	Good	

		Mech	anical properties a	ccording to EN 1	2163		
Condition	Diameter [mm]		Rp0,2 [Mpa]	Rm [Mpa] A(%)		Hardness HB	
of material	from	to	min.	min.	min.	naluliess nd	
М	All		As extruded - without specific mechanical properties				
R680	8	80	320	680	10	-	
H170	0	0 00	00	-	-	-	170-210
R740	8 80	00	400	740	8	-	
H200		00	-	-	-	> 200	

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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Non contractual document - Information given as an indication