

CuZn37Pb0.5

TMS

Nearest international Standards		Nominal Composition			
m Lego	TMS	Element	Ave. %	Impurities	max %
DIN 17660	CuZn37Pb0.5-2.03	Cu	63.1	Fe	0.15
ASTM B453	C33500	Pb	0.5	Ni	0.05
	CW604N			Si	0.015
				Autre	0.15
		Zn	Rest	Total maxi	

Typical usage

Cold working brass. Riveting, setting

Physical properties @20 °C		Technical Properties	
Density (g/cm ³)	8.4	Thermal Conductivity (W/m.K)	115
young's Modulus (Gpa)	110	Thermal Capacity (J/Kg.K)	
Coulomb's Modulus (Gpa)		Melting Range (°C)	875-920
Coefficient of Linear Expansion (20-300°C)	20	Stress Relief Temperature (°C)	250-350
Coefficient of friction (slip)		Hot Stamping Temperature (°C)	730-800
Coefficient of friction (adhesion)		Annealing Temperature (°C)	450-650

Properties	Mechanicals					Electricals		
Reference Diam. Ø 20 mm	Rp 0,2 (Mpa)	Rm (Mpa)	A (%)	HB	HV	Résillience (daJ/cm ²)	Conductivité (% I.A.C.S.)	Résistivité
Drawn / treated	350	390	20	120			7	25
Extruded								

Different General Capabilities			Welding and Brazing Capacities		
Hot Working	80	Très bon	Brazing		
Cold Working	80	Très bon	Soft		Bon
Free Cutting	70	Bon	Strong		Bon
Corrosion Resistance	Non recommandé		Welding		
General Capabilities : 77 %			Oxy-acetylene		Moyen
			Gas-shielded arc		Non recommandé
			Coated metal-ard		Non recommandé
			Carbon arc		Non recommandé
Profile and flat dimensions on request			Resistance		Moyen

Fabrication Range (mm)			
	Round	Square	Hexagonal
Turned billet			
Extruded	de 15 à 84		
Drawn / treated	de 6 à 83	de 6 à 60	de 6 à 72