BRASS

CZ108 - CW508L



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Brass alloy CZ108, also known as CW508L or C27200, is a common alpha brass with good mechanical properties, excellent ductility and good corrosion resistance. Commonly referred to as basis brass, it's composed primarily of copper and zinc, with a high copper content which typically stands around 63%. This composition grants CZ108 excellent ductility and a clean, bright finish, making it ideal for decorative purposes.

KEY FEATURES

- Excellent cold workability
- Can be hot formed and hot forged
- Good corrosion resistance
- High ductility
- Excellent soldering and brazing properties

CHEMICAL PROPERTIES								
Copper	Nickel	Tin	Lead	Aluminium	Other	Zinc		
(Cu)	(Ni)	(Sn)	(Pb)	(AI)	Elements	(Zn)		
62-64%	0.3%	0.1%	0.1%	0.05%	0.2%	rest		

MECHANICAL PROPERTIES					
	Soft	1/2 Hard	Hard		
Tensile strength (N/mm²)	300-350	350-420	400-480		
Yield strength (N/mm²)	100-150	200-260	250-32 0		
Elongation (% in 50mm)	40	20	8		
Hardness - Brinell (HB) tube	110	110	110		
Hardness - Vickers (HV)	70	90-120	130		

PHYSICAL PROPERTIES						
Density (kg/m³)	8440					
Modulus of elasticity (Gp	97					
	0-100°C (µm/m/°C)	19.2				
Mean coefficient of	0-350°C (µm/m/°C)	21.4				
thermal expansion	0-538°C (µm/m/°C)	22.6				
Thermal	at 100°C (W/m.K)	120				
conductivity	at 500°C (W/m.K)	101				
Specific Heat 0-100°C (J	380					
Electrical conductivity (I	31					
Melting point (°C)	920					

MARKET SECTORS



Pipes, fittings, valves, components



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