BRASS

CZ112 - CW712R



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CZ112, also known as CW712R, is a type of naval brass renowned for its use in marine and subsea applications. It can be easily fabricated and offers good machinability and excellent resistance to various corrosive environments. This brass alloy's superior strength and corrosion resistance, along with its good property retention at cryogenic temperatures, make it a versatile material for demanding applications.

KEY FEATURES

- Excellent resistance to corrosion
- Can be easily formed when hot,
- · Good mechanical properties
- High strength
- Good soldering and brazing properties

CHEMICAL PROPERTIES								
Copper (Cu)	Tin (Sn)	Lead (Pb)	Nickel (Ni)	Iron (Fe)	Other Elements	Zinc (Zn)		
61-63%	1%	0.5-1%	0.3%	0.1%	0.2%	rest		

MECHANICAL PROPERTIES				
Tensile strength (N/mm²)	450-700			
Yield strength (N/mm²)	150-250			
Elongation (% at break)	20-45			
Hardness - Brinell (HB) tube	90-150			
Hardness - Vickers (HV)	130-160			

PHYSICAL PROPERTIES						
Density (kg/m³)	8470					
Modulus of elasticity (Gp	100-110					
	0-100°C (µm/m/°C)	20.0				
Mean coefficient of	0-350°C (µm/m/°C)	22.2				
thermal expansion	0-538°C (µm/m/°C)	23.1				
Thermal	at 100°C (W/m.K)	90				
conductivity	at 500°C (W/m.K)	102				
Specific Heat 0-100°C (J	377					
Electrical conductivity (I	28					
Melting point (°C)	900					

MARKET SECTORS



Marine Equipment

Valves, pump components, propeller shafts, bearings



Automotive Industry

Bearings, bushes, connectors, fittings, components



Railings, balustrades, door frames, window frames



Electrical Industry

Connectors, terminals, switch gear components, contacts



Bearings, bushes, gears, valves, pump components



Aerospace Industry

Bearings, bushes, connectors, fittings, components



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