BRASS

CZ106 - CW505L



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CZ106 (CW505L) brass is a versatile alloy known for its high copper content and good balance of strength, corrosion resistance and machinability. It is widely used in general industrial applications. Its excellent machinability allows for intricate machining operations, while its good corrosion resistance makes it suitable for use in various environmental conditions. CZ106 is favoured for components requiring reliable performance and longevity.

KEY FEATURES

- Good combination of strength and ductility
- Cold forming properties
- Good corrosion resistance
- Excellent soldering and brazing
- Excellent deep drawing capabilities

CHEMICAL PROPERTIES

69-71%	0.5%	0.3%	0.1%	0.02%	0.1%	rest
Copper (Cu)	Lead (Pb)	Nickel (Ni)	Tin (Sn)	Aluminium (Al)	Other Elements	Zinc (Zn)
6		Nicolard	Tin	A.L	Other	

MECHANICAL PROPERTIES

Tensile strength (N/mm ²)	300-370
Yield strength (N/mm ²)	100-170
Elongation (% at break)	35-50
Hardness - Brinell (HB) tube	90-110
Hardness - Vickers (HV)	100-130

PHYSICAL PROPERTIES

		8500	
Density (kg/m ³)	ensity (kg/m³)		
Modulus of elasticity (Gp	oa)	97-110	
Maan as officient of	0-100°C (µm/m/°C)	19.5	
Mean coefficient of	0-350°C (µm/m/°C)	22.0	
thermal expansion	0-538°C (µm/m/°C)	23.6	
Thermal	at 100°C (W/m.K)	120	
conductivity	at 500°C (W/m.K)	100	
Specific Heat 0-100°C (J	/kg.K)	380	
Electrical conductivity (IACS %)		31	
Melting point (°C)		920	

MARKET SECTORS





Plumbing fittings, valves, components



Gears, bearings, bushings, components



Radiator cores, heater cores, automotive parts



Shipbuilding, marine hardware, offshore equipment



Door and window fittings, decorative elements



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