

BRASS

CZ130 - CW624N



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The product CZ130 is a brass alloy known for its machinability and is typically used in sections. CZ130 brass (CW623N, CW624N) is a versatile alloy with good strength, machinability and corrosion resistance. These properties make CZ130 suitable for applications requiring high tensile strength, high corrosion resistance and a good surface finish without additional polishing. It's commonly used in hot forging and decorative applications.

KEY FEATURES

- Very good machinability rating
- Good strength
- Good corrosion resistance
- Good thermal and electrical conductivity
- Excellent fabrication properties

CHEMICAL PROPERTIES

Copper (Cu)	Lead (Pb)	Nickel (Ni)	Tin (Sn)	Aluminium (Al)	Zinc (Zn)
61-63%	0.5-1%	0.3%	0.1%	0.05%	rest

MECHANICAL PROPERTIES

Tensile strength (N/mm ²)	390-480
Yield strength (N/mm ²)	120-180
Elongation (% at break)	20-35
Hardness - Brinell (HB) tube	100-150
Hardness - Vickers (HV)	85-135

PHYSICAL PROPERTIES

Density (kg/m ³)	8400	
Modulus of elasticity (Gpa)	95-110	
Mean coefficient of thermal expansion	0-100°C (µm/m/°C)	20.5
	0-350°C (µm/m/°C)	22.9
	0-538°C (µm/m/°C)	24.1
Thermal conductivity	at 100°C (W/m.K)	115
	at 500°C (W/m.K)	95
Specific Heat 0-100°C (J/kg.K)	385	
Electrical conductivity (IACS %)	27	
Melting point (°C)	900	

MARKET SECTORS



Construction & Architectural

Door frames, window frames, railings, decorative trims



Marine Equipment

Propeller shafts, marine fittings, valves, fasteners



Electrical Industry

Connectors, terminals, components



Automotive Industry

Bearings, bushings, pumps, valves, fittings



Manufacturing & Engineering

Gears, shafts, fasteners, fittings, connectors



Aerospace Industry

Bearings, bushings, pumps, valves, fittings