

BRASS

CZ132 - CW602N



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CZ132 brass, also known as CW602N, is a dezincification-resistant (DZR) brass alloy that contains small amounts of lead and arsenic. CZ132 brass is appreciated for its combination of strength, resistance to corrosion and ease of fabrication, making it a versatile material for various industrial applications. CZ132 is easy to form, machine and hot forge, which is ideal for manufacturing complex parts.

KEY FEATURES

- High Strength and Ductility
- Dezincification Resistance
- Good Corrosion Resistance
- Good Machinability and Formability
- Good for Hot Stamping

CHEMICAL PROPERTIES

Zinc (Zn)	Lead (Pb)	Iron (Fe)	Tin (Sn)	Arsenic (As)	Copper (Cu)
35-37%	1.7-2.8%	0.2%	0.2%	0.08-0.15%	rest

MECHANICAL PROPERTIES

Tensile strength (N/mm ²)	340-380
Yield strength (N/mm ²)	220-300
Elongation (% at break)	27-37
Hardness - Brinell (HB) tube	70-150
Hardness - Vickers (HV)	70-150

PHYSICAL PROPERTIES

Density (kg/m ³)	8500	
Modulus of elasticity (Gpa)	103	
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)	117
	at 500°C (W/m.K)	96
Specific Heat 0-100°C (J/kg.K)	377	
Electrical conductivity (IACS %)	26	
Melting point (°C)	900	

MARKET SECTORS



Heating & Plumbing

Water fittings, valves, taps, stopcocks, fluid handling



Marine Equipment

Marine fittings, valves, fasteners, fittings



Construction & Architectural

Decorative and functional elements



Automotive Industry

Heating and cooling system components, fasteners



Manufacturing & Engineering

Hot formed and machined parts, fasteners, fittings



Aerospace Industry

Heating and cooling system components, fasteners