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/mm²)	**340-380**
Yield strength (N/mm²)	**220-300**
Elongation (% at break)	**27-37**
Hardness - Brinell (HB) tube	**70-150**
Hardness - Vickers (HV)	**70-150**

PHYSICAL PROPERTIES

Density (kg/m³)		**8500**
Modulus of elasticity (Gpa)		**103**
Mean coefficient of thermal expansion	0-100ºC (µm/m/ºC)	**20.5**
	0-350ºC (µm/m/ºC)	**22.9**
	0-538ºC (µm/m/ºC)	**24.1**
Thermal conductivity	at 100ºC (W/m.K)	**117**
	at 500ºC (W/m.K)	**96**
Specific Heat 0-100ºC (J/kg.K)		**377**
Electrical conductivity (IACS %)		**26**
Melting point (ºC)		**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