LEADED BRONZE

LG2 - CC491K



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LG2 bronze, also known as CC491K and C83600, is a popular leaded gunmetal bronze alloy known for its excellent machining properties, good wear resistance and reasonable corrosion resistance. Its combination of properties makes it suitable for a wide range of applications. The presence of lead enhances its machinability, making it a preferred choice for components that require extensive machining and detailed manufacturing.

KEY FEATURES

- Outstanding Machinability
- Moderate Strength
- Good Corrosion Resistance
- Resistance to Dezincification
- Good Pressure Tightness

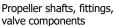
CHEMICAL PROPERTIES								
Copper (Cu)	Tin (Sn)	Lead (Pb)	Zinc (Zn)	Nickel (Ni)	Iron (Fe)	Phosphorus (P)		
83-88%	4-6%	4-6%	2-4%	1%	0.2%	0.1%		

MECHANICAL PROPERTIES				
Tensile strength (N/mm²)	200-310			
Yield strength (N/mm²)	70-140			
Elongation (%)	10-25			
Hardness - Brinell (HB)	65-90			
Hardness - Vickers (HV)	80-130			

PHYSICAL PROPERTIES						
Density (kg/m³)	8700					
Modulus of elasticity (Gp	105					
	0-100°C (µm/m/°C)	19.0				
Mean coefficient of	0-350°C (µm/m/°C)	21.5				
thermal expansion	0-538°C (µm/m/°C)	23.3				
Thermal	at 100°C (W/m.K)	55				
conductivity	at 500°C (W/m.K)	35				
Specific Heat 0-100°C (J	385					
Electrical conductivity (I	12					
Melting point (°C)	975					

MARKET SECTORS







Bushings, bearings, wearresistant components



Gears in machinery, worm wheels, bearings, bushings



Industry

Electrical connectors, terminals, switch components



Valve bodies, seats, stems, fluid control valves



Door handles, architectural trim, decorative hardware



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