Brass C360

Technical Datasheet

Key Features

- Excellent corrosion resistance
- Excellent machinability

Common Applications

- Gears
- Pinions
- Automatic high-speed screw machine parts

Material Description

Brass C360 is a versatile alloy with excellent machinability, making it ideal for high-speed machining operations. Brass C360 exhibits good corrosion resistance, moderate strength, and excellent hot formability, making it suitable for various applications including fasteners, fittings, valves, and components requiring intricate machining details. However, it should be noted that the presence of lead in this alloy may pose environmental and health concerns, and alternatives such as lead-free brass are often preferred in certain applications.

Chemical Composition (%)

	Cu	Fe	Pb	Zn							
Min.	60		2.5								
Max.	63	0.35	3.7	35.5							

Mechanical Properties

Ultimate Tensile Strength	49,000 - 68,000 PSI
Tensile Yield Strength	18,000 - 45,000 PSI
Hardness	Rockwell B78
Elongation at Break	53%

Physical Properties

Density	0.307 lb/in³ (8.49 g/cm³)
Thermal Conductivity	115W/m.K
Modulus of elasticity	14,100 KSI (97 GPa)
Melting Point	1,630 – 1,650°F (885 - 900 °C)

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

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