

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/in ³ (8.49 g/cm ³) |
| 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.

InstaVoxel™ - On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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