

Brass C360

Brass is an alloy consisting of both copper and zinc. The gold material is a weather and corrosion-resistant metal with a tensile strength like mild steel. It is also an easy to machine material, so feed rates can remain high and coolant need is minimal. Brass C360 remains the industry standard for general machining and high-volume production.

Applications

Typical applications include screw machine parts, automotive terminals, bushings, central heating system parts, couplings, electronic/electrical components, fittings, fluid connectors, handles and hinges, industrial hardware components, jewelry, musical instruments, nuts and bolts, nozzles, plumbing fixtures, screws, rivets, and valve components.

Key Product Benefits

- Corrosion and Weather Resistance
- Excellent Machinability
- Full Utilization of Screw Machine Capabilities
- Good Strength

Properties

| Property | Value |
|--|----------------------------------|
| Tensile Strength | 56,000 psi |
| Yield Strength (0.5% ext.) | 45,000 psi |
| Elongation (in 2") | 25% |
| Rockwell B Hardness | 72 |
| Melting Point - Liquidus | 1,650°F |
| Melting Point - Solidus | 1,630°F |
| Density (@ 68°F) | 0.307 lb/in ³ |
| Electrical Conductivity (@ 68°F) | 26% IACS (in annealed condition) |
| Thermal Conductivity (@ 68°F) | 67 BTU/ft ² /ft/hr/°F |
| Coefficient of Thermal Expansion per °F (@ 68-572°F) | 1.14 × 10 ⁻⁵ |
| Modulus of Elasticity in Tension | 14,000 ksi |
| Modulus of Rigidity | 5,300 ksi |