

C36000 is a common brass alloy, also known as Free Cutting Brass or 60/40 Brass. It contains approximately 60% copper and 40% zinc. C36000 is valued for its excellent machinability, making it suitable for CNC machining and other automated manufacturing processes.

Chemical Composition

Element	Maximum Unless Range is Specified
Cu %	60.0-63.0
Pb %	2.5-3.0
Zn %	Rem.
Fe %	.35

Physical Properties

Property	Maximum Unless Range is Specified
Density lb/in3 at 68F	0.307
Thermal Conductivity ,Btu-in/hr-ft2-F	67
Specific Heat Capacity ,Btu/lb/F	0.09
Specific Gravity	8.50
Electrical Conductivity	26% IACS
Melting Point (Deg °F)	1630-1650
Modules of Elasticity in Tension, ksi	14,000
Modules of Rigidity, ksi	5,300

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength ksi	40-70
Tensile Yield Strength ksi	15-45
Elongation at Break	10%-25%
Hardness, Rockwell B	55-82

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.