

ASTM B 16 /C 360000(H02)

## COPPER ALLOY

BRASS FREE MACHINING LIGHT VOLTAGE

ASTM B16 Free machining brass, produced from a combination of copper and zinc, has the highest machinability of all copper alloys, and is the standard against which all the others are compared to. B16 Brass, known for its strength and resistance to corrosion with properties closely resembling that of steel, is one of the most popular copper alloys used today. B16 Brass can be precision machined easily. Although ductile in its softened state, B16 Brass is a strong material to work with and maintains its strength even under some of the most demanding conditions. B16 Brass forms a thin protective "patina", which, unlike steel and iron, will not rust when exposed to the atmosphere. As a high-density material, B16 Brass is ideal for heavy industrial parts. 360 Brass is also valued for its high polished finish. B16 Brass is available in rounds, flats, squares, hexagons, tube, plate, and sheet (C260).

### Chemical Properties

Cu	Fe	Pb	Zn
61.5	0.35 Max	3	35.3

### Mechanical Properties

Yield strength	Tensile strength	Elongation	Hardness
Min 0.2% PSI	Min PSI	Min %	HRB
45000	58000	25	878

### Heat Treatment

The annealing temperature of B16/360 Brass is 800°-1100°F

### Equivalent Designation

UNS C36000  
 ASTM B16  
 SAE J461/463  
 AMS 4610H  
 QQ-B-613D Comp 11  
 QQ-B-626D Comp 360  
 C360000

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