



C28000 MUNTZ METAL

ASTM B36

UNS No.	Copper	Lead	Iron	Zinc
C28000	59.0-63.0	0.09 max	0.07 max	remainder

C28000 Muntz Metal, also known as 60/40, is copper alloyed with zinc. C28000 Muntz is most commonly found in sheet and plate form. Cu Zn40 is considered a duplex alpha-plus-beta brass and has excellent hot-working properties, but is less corrosion resistant than C46400 Naval Brass. C28000 Muntz Metal is commonly used in architectural applications, including decorative panels, elevator doors, trim work and signage. Compared to the yellow tones of C26000 Cartridge Brass, C28000 Muntz has a warmer appearance that readily takes to polishing. Industrial applications for 280 brass include baffles and tubesheets for condensers and heat exchangers.

Fabrication Properties

Density @ 68° F	0.305 lb/in ³
Melting Range	1645-1650° F
Hot Formability	Excellent
Cold Formability	Limited
Machinability rating (C36000 = 100)	45
Brazing	Good
Soldering	Excellent
Gas-shielded arc welding	Fair
Oxy-acetylene welding	Good
Carbon-arc welding	Not recommended
Coated metal-arc welding	Not recommended
Resistant welding: spot and seam	Fair
Resistance welding: butt	Good

Mechanical Properties

Temper	Designation	Tensile, min ksi (MPa)	Tensile, max ksi (MPa)
M20	As Hot-Rolled	40 (275)	55 (380)
H01	Quarter-Hard	50 (345)	62 (425)
H02	Half-Hard	58 (400)	70 (485)
H03	Three-Quarter Hard	60 (415)	75 (515)
H04	Hard	70 (485)	85 (585)
H06	Extra Hard	82 (565)	95 (655)

