

# IBC Advanced Alloys - Copper Alloys



## Product Data Sheet - C62500 Aluminum Bronze

### Chemical Composition (Weight Percent)

DELIVERING SOLUTIONS						
Alloy	Aluminum	Zinc	Iron	Manganese	Silicon	Copper
C62500	12.50-13.50	-	3.50-5.50	2.00 max	-	Balance

### Physical and Chemical Properties

DELIVERING SOLUTIONS				
Density lb/in <sup>3</sup>	Elastic Modulus (10 <sup>6</sup> psi)	Coefficient of Thermal Expansion (in./in./°F)	Thermal Conductivity (btu/ft.hr.°F)	Melting Temperature °F
0.260	16	9.0 x10 <sup>-6</sup>	27	1915-1930

### Typical Mechanical Properties

DELIVERING SOLUTIONS							
Alloy	Temper	Thickness	Tensile Strength ksi	0.5% Offset Yield ksi	Elongation	Hardness HRc or HRb	Electrical Conductivity % IACS
C62500 Bar	M30	All sizes	100	55	1	B29	10
C62500 Rounds	M30	All sizes	100	55	1	B29	10

### Forms Available:

**Plate:** Thickness 1.00 to 18.00 inches, width 36 inches max. x standard mill lengths up to 115 inches.

**Rounds:** Diameter 4.00 to 18.00 inches, standard mill lengths.

**Rings:** To 55.0 inches O.D.

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