

# IBC Advanced Alloys - Copper Alloys



## Product Data Sheet - C62400 Aluminum Bronze

### Chemical Composition (Weight Percent)

#### DELIVERING SOLUTIONS

Alloy	Aluminum	Tin	Iron	Manganese	Silicon	Copper
C62400	10.00-11.50	0.20 max	2.00-4.50	0.30 max	0.25 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
0.269	17	9.0 x10 <sup>-6</sup>	34	1875-1905

### Typical Mechanical Properties

#### DELIVERING SOLUTIONS

Alloy	Temper	Thickness	Tensile Strength ksi	0.5% Offset Yield ksi	Elongation	Hardness HRc or HRb	Electrical Conductivity % IACS
C62400 Bar	M30	All sizes	90	40	18	B87	12
C62400 Rounds	M30	All sizes	90	40	18	B87	12

### 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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