

IBC Advanced Alloys - Copper Alloys



Product Data Sheet - C61400 Aluminum Bronze

Chemical Composition (Weight Percent)

DELIVERING SOLUTIONS

Alloy	Aluminum	Lead	Iron	Manganese	Phosphorus	Copper
C61400	6.00-8.00	0.01 max	1.50-3.50	1.00 max	0.015 max	Balance

Physical and Chemical Properties

DELIVERING SOLUTIONS

Density lb/in ³	Elastic Modulus (10 ⁶ psi)	Coefficient of Thermal Expansion (in./in./°F)	Thermal Conductivity (btu/ft.hr.°F)	Melting Temperature °F
0.285	17	9.0 x10 ⁻⁶	39	1905-1915

Typical Mechanical Properties

DELIVERING SOLUTIONS

Alloy	Temper	Thickness	Tensile Strength ksi	0.5% Offset Yield ksi	Elongation	Hardness HRc or HRb	Electrical Conductivity % IACS
C61400 Bar	All	All sizes	75-85	35-60	30-45	B80-85	14
C61400 Rounds	All	All sizes	80-85	35-50	35-50	B85-90	14

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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