

IBC Advanced Alloys - Copper Alloys



Product Data Sheet - C18200 Chrome Copper

Chemical Composition (Weight Percent)

DELIVERING SOLUTIONS						
Alloy	Chromium	Zirconium	Iron	Lead	Silicon	Copper
C18200	0.60 – 1.20	-	0.10 max	0.05 max	0.10	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
0.321	17	9.5 x10 ⁻⁶	187	1950-1970

Typical Mechanical Properties

DELIVERING SOLUTIONS							
Alloy	Temper	Thickness	Tensile Strength ksi	0.5% Offset Yield ksi	Elongation	Hardness HRc or HRb	Electrical Conductivity % IACS
C18200 Plate	TF00	All sizes	55-60	40-45	25	B65-70	80
C18200 Rounds	TF00	All sizes	55-75	40-65	15	B65-80	80

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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