

# IBC Advanced Alloys - Copper Alloys



## Product Data Sheet - C18150 Chrome Copper

### Chemical Composition (Weight Percent)

DELIVERING SOLUTIONS						
Alloy	Chromium	Zirconium	Nickel	Aluminum	Zinc	Copper
C18150	0.50 – 1.50	0.05 - 0.25	-	-	-	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
0.321	17	9.5 x10 <sup>-6</sup>	187	1950-1980

### Typical Mechanical Properties

DELIVERING SOLUTIONS							
Alloy	Temper	Thickness	Tensile Strength ksi	0.5% Offset Yield ksi	Elongation	Hardness HRc or HRb	Electrical Conductivity % IACS
C18150 Plate	TL06	All sizes	75-85	72-82	16	B78-82	80
C18150 Rounds	TL06	All sizes	75-85	72-82	16	B78-82	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.