



C18150 Copper Chromium Zirconium

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Chemical Composition - Limits		Chemical Composition - Nominal	
Cu rem - incl Ag (99.7 min incl named elements)		Cu 98.9	
Cr 0.50-1.5		Cr 1.0	
Zr 0.02-0.20		Zr 0.11	
Fabrication Index			
Soldering		5 - Excellent	
Hot Worked		5 - Excellent	
Cold Worked		5 - Excellent	
Brazing		4 - Very Good	
Machinability		1 - Poor	

Physical Properties

Annealing Range (Min)	1800 °F
Annealing Range (Max)	1850 °F
Density	0.321 lb/in ³
Electrical Resistivity (Annealed)	13 Ω·cir-mil/ft @ 68 °F
Electrical Conductivity (Annealed)	80% IACS @ 68 °F
Thermal Conductivity	187 Btu/ft ² /ft·hr/°F @ 68 °F
Coefficient of Thermal Expansion	9.5 per °F (68-572 °F)
Modulus of Elasticity (Tension)	17 ksi
Melting Point (Solidus)	1,700 °F
Melting Point (Liquidus)	1,900 °F

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Round Rod - Pretempered

TEMPER NAME	TEMPER CODE	TENSILE STRENGTH (ksi)	
		Min	Max
AT	TFO0	65.0	80.0
1/8 Hard	TL00	70.0	85.0
1/4 Hard	TL01	75.0	90.0
1/2 Hard	TL02	80.0	95.0
Hard	TL04	85.0	100
Spring	TL08	90.0	105
Extra Spring AT	TL10	100	