



C18150 Copper Chromium Zirconium

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C18150 Copper Chromium Zirconium

| 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) | 1,750 °F |
| Melting Point (Liquidus) | 1,920 °F |

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Round Wire - Pretempered

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