



Metal Alloys Corporation



CHROMIUM COPPER

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuCr1
Eropean	CuCr1
BS	CC 101

Used in resistance welding machine electrodes, seam welding wheels, electrical switch gear, electrode holder jaws, cable connectors, current carrying arms and shafts, circuit breaker parts, arcing and bridging parts, grid side rods in electron tubes, molds, spot welding tips, flash welding electrodes, electrical and thermal conductors requiring greater strength than copper, switch contacts.

Typical Uses for C18200 Chromium Copper:

CONSUMER: Pencil-type & Light Soldering Guns: Tips, Rod Extensions **ELECTRICAL:** Switch Contacts, Electric Motor and Generator Components, Contacts, Wire, High Temperature, Semi Conductor Bases, Parts for Electronic Devices, Cable, Connectors, Thermal Conductors Requiring Greater Strength than Copper, Switch Gears, Electrical Connectors, Electrical Conductors Requiring Greater Strength than Copper, Arcing and Bridging Parts, Circuit Breaker Parts, Electron Tube Grid Side Rods **INDUSTRIAL:** Seam Welding Wheels, Electrode Holder Jaws, Flash Welding Electrodes, Plastic Mold Components, Resistance Welding Machine Electrodes, Flash Welding Electrodes, Current Carrying Shafts and Arms, Wear Plates on Heavy Equipment, Heat Sinks, Structural Parts, Spot Welding Tips, Molds

CHEMICAL COMPOSITION

	Cr	Cu	Fe	Pb	Si
Min/Max	0.6 - 1.2	Rem	0.1	0.05	0.1
Nominals	0.9000	99.1000	-	-	-

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.8 $\text{Å} \cdot 10^6$ per $\text{Å}^\circ\text{F}$ (68-212 F)
Density	0.321 lb/in ³ @ 68 F
Electrical Conductivity	80 %IACS @ 68 F
Electrical Resistivity	13.0 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1967 F
Melting Point Solid US	1958 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	7200 ksi
Specific Gravity	8.89
Specific Heat Capacity	0.092 Btu/lb/ $\text{Å}^\circ\text{F}$ @ 68 F
Thermal Conductivity	187.0 Btu $\text{Å} \cdot \text{ft}/(\text{hr} \text{Å} \cdot \text{ft}^2 \text{Å} \cdot \text{Å}^\circ\text{F})$ @ 68 F

SIZES AVAILABLE :

HOLLOW RODS
ROUND RODS/RODS
HEX
SQUARE
FLAT
BILLETS
INGOTS

Min Bore Size 20 mm and Max OD 100 mm
8mm To 100 mm
10mm To 60mm
10mm To 60mm
10mm Min Thickness and max Width 120mm
Up to 200 mm
As per Specification

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