



SHREE EXTRUSIONS LIMITED



C16200

CADMIUM COPPER

C16200 Cadmium Copper alloy offers a unique combination of high tensile strength and high electrical conductivity for an industry where these properties are generally considered incompatible. The nominal composition of 99.0% copper and 1.0% cadmium can lead to these unique properties.

Typical Application for C16200 Cadmium Copper alloys:

ELECTRICAL INDUSTRY: Resistance Welding Electrodes, Circuit Breaker Switches, Stud Bases for Power Transmitters, Electrical Conductor Material

CONSUMER: Rod Extensions, Pencil-type, Light Soldering Guns, Tips

INDUSTRIAL: Connectors, Solderless Wrapped, Welding Wheels, Trolley Wires

CHEMICAL COMPOSITION

	Al	Be	Cd	Cu	Fe
Min/Max	-	-	07-1.2	Rem	.02
Nominals	-	-	1.0	99.0	-

PHYSICAL PROPERTIES

Product Property	US Customary	Metric
Melting Point - Liquidus	1969 F	1076 C
Melting Point - Solidus	1886 F	1030 C
Density	0.321 lb/in ³ at 68 F	8.89 gm/cm ³ @ 20 C
Specific Gravity	8.890	8.89
Electrical Resistivity	11.50 ohms-cmil/ft @ 68 F	1.91 microhm-cm @ 20 C
Electrical Conductivity	90 % IACS @ 68 F	0.527 MegaSiemens/cm @ 20 C
Thermal Conductivity	208 Btu • ft/(hr • ft ² • oF)at 68F	360.0 W/m • oK at 20 C
Modulus of Elasticity in Tension	17000 ksi	117000 Mpa
Modulus of Rigidity	6400 ksi	44130 Mpa
Specific Heat Capacity	0.090 Btu/lb/°F at 68 F	377.1 J/kg • °K at 293 K

SIZES AVAILABLE :

- HOLLOW RODS
- ROUND 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

Regd. Office & Works:
 217/218 Phase-II, Okha Rajkot Road, Dared, Jamnagar - 361 004. INDIA
 Tel.: +91 - 288 - 2730118 | Mobile: +91 - 9328105172
 mail@shree-extrusion.com | www.shree-extrusion.com



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