



Metal Alloys Corporation



MUNTZ METAL - C28000 - C280

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuZn40
European	CuZn40
BS	CZ 109
JIS	C 2800
Russian	L60

Muntz Metal (C28000 or C280) was founded and patented in 1832 by English businessman George F. Muntz. One of the most desirable features of Muntz metal is its distinctive color. This particular metal is primarily used in architectural applications. Muntz metal is a highly plastic metal at red heat, making it an ideal choice for pressing, stamping and hot forging. Other advantages that C280 lends are: high ductility, high electrical and thermal conductivity, high impact strength, good creep resistance, ease of welding, and low volatility under high vacuum.

TYPICAL APPLICATIONS:

- Architectural applications
- Heat Exchanger Tube
- Decorative Hardware
- Valve Stems
- Condenser plates
- Brazing Rod

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Zn
Min/Max	59.0 - 63.0	0.07	0.3	Rem
Nominals	60.0000	-	-	40.0000

PHYSICAL PROPERTIES

Coefficient of Thermal Expansion	11.6 • 10 ⁻⁶ per oF (68-572 F)
Density	0.303 lb/in ³ @ 68 F
Electrical Conductivity	28 %IACS @ 68 F
Electrical Resistivity	37.0 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1660 F
Melting Point Solid US	1650 F
Modulus of Elasticity in Tension	15000 ksi
Modulus of Rigidity	5600 ksi
Specific Gravity	8.39
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F
Thermal Conductivity	71.0 Btu • ft/(hr • ft ² • °F) @ 68 F

SIZES AVAILABLE :

HOLLOW RODS	Min Bore Size 20 mm and Max OD 100 mm
ROUND RODS/BARS	6mm To 130 mm
HEX	5mm To 60mm
SQUARE	4mm To 60mm
FLAT	5mm Min Thickness and max Width 120mm
PROFILES / SECTIONS	AS per Customer Drawing
BILLETS	Up to 200 mm
INGOTS	AS per Specification

Regd. Office & Plant

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