



# Metal Alloys Corporation



## LEADED NICKEL COPPER

### EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuNi30Mn1Fe
European	CuNi30Mn1Fe
BS	CN 107
JIS	C 7150
Russian	MNZMo30-1-1

C19160 alloy is a free-cutting bronze alloy developed for the manufacture of connectors, primarily in the electronics industry. This high machinable alloy must meet several requirements such as high strength, high electrical conductivity, and excellent corrosion resistance.

### Typical Uses

**Electrical:** Contacts, Sockets, Connector Pins

### CHEMICAL COMPOSITION

	Cu (1)	Fe	Pb	Ni	P	Sn	Zn
Min/Max	Rem.	.05	.8 - 1.2	.8 - 1.2	.15 - .35	.05	.50
Nominals	97.8	-	1.0	1.0	.2	-	-

### PHYSICAL PROPERTIES

	US Customary
Melting Point - Liquidus	1980 F
Melting Point - Solidus	1900 F
Density	0.320 lb/in <sup>3</sup> at 68 F
Specific Gravity	8.880
Electrical Conductivity	55 %IACS @ 68 F
Thermal Conductivity	146 Btu • ft/(hr • ft <sup>2</sup> • oF) at 68F
Modulus of Elasticity in Tension	18000 ksi
Modulus of Rigidity	6000 ksi

### SIZES AVAILABLE :

HOLLOW RODS	Min Bore Size 20 mm and Max OD 100 mm
ROUND RODS/BARS	8mm To 100 mm
HEX	10mm To 60mm
SQUARE	10mm To 60mm
FLAT	10mm Min Thickness and max Width 120mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

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