



SHREE EXTRUSIONS LIMITED

C71500

COPPER NICKEL "70/30"

SPECIFICATIONS

ISO
European
BS
JIS
Russian

DESIGNATION

CuNi30Mn1Fe
CuNi30Mn1Fe
CN 107
C 7150
MNZMo30-1-1

C71500, Copper nickel offers excellent corrosion resistance, especially in marine salt water environments. The main, wrought copper-nickel alloys chosen for sea water service contain 10 or 30 percent nickel. They also have important additions of iron and manganese which are necessary to maintain good corrosion resistance. Some common applications for copper nickel include: valves, and pump components.

TYPICAL USES for C71500 Copper Nickel "70/30":

INDUSTRIAL: Pump Impellers, Heat Exchanger Tubes, Evaporator Tubes, Distiller Tubes, Condenser Plates, Refrigerators, Process Equipment, Condenser Components, Ferrules, Welding Backing Rings, Flexible Metal Hose, Weld Wire, Boiler Parts, Condensers, Propeller Sleeves, Heat Exchanger Components **MARINE:** Salt Water Flanges, Salt Water Piping, Valve Bodies, Sea Water Service, Fittings, Sea Water Condensers, Salt Water Pipe Fittings, Water Boxes - Salt Water Applications, Pump Bodies and Internal Parts-Sea Water

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Mn	Ni	Zn
Min/Max	Rem	0.40 - 1.0	0.05	1	29.0 - 33.0	1
Nominals	69.5000	0.5000	-	-	30.0000	-

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.0 $\times 10^{-6}$ per oF (68-572 F)
Density	0.323 lb/in ³ at 68 F
Electrical Conductivity	4 %IACS @ 68 F
Electrical Resistivity	225.0 ohms-cmil/ft @ 68 F
Melting Point - Liquidus	2260 F
Melting Point - Solidus	2140 F
Modulus of Elasticity in Tension	22000 ksi
Modulus of Rigidity	8300 ksi
Specific Gravity	8.94
Specific Heat Capacity	0.09 Btu/lb/oF at 68 F
Thermal Conductivity	17.0 Btu \times ft/(hr \times ft ² \times oF) at 68F

SIZES AVAILABLE :

HOLLOW RODS
ROUND RODS/BARS
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



Quality, Technology & Vision at it's Best...