



Metal Alloys Corporation



COPPER-NICKEL 95/5

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuNi5Fe1Mn
BS	CN 101
Russian	MNZ5-1

Excellent hot and cold workability; good forge ability. Fabricated by bending, coining, coppersmith, drawing and upsetting, hot forging and pressing, knurling, roll threading, shearing, spinning, swaging, and stamping.

Good to excellent. Susceptible to galvanic corrosion when coupled with iron, aluminum, magnesium, leads, tin, and zinc. Good resistance to atmospheric, brackish water, sea water, and non-oxidizing acid corrosion, but avoid heating in oxidizing atmospheres or exposing to oxidizing acids, moist halogens, sulfides, ammonia, or solutions with ammonium ions.

TYPICAL USES:

Industrial: Condensers ,Condenser Plates, Evaporator Tubes , Ferrules , Heat Exchanger Tubes, Corrosion Resistant Corrosion Resistant, Petrochemicals, Salt Water, Erosion and Impingement, Moderate Strength, Retains Strength at High Temperatures.

Marine: Condenser Intake Systems , Salt Water Piping,

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Mn	Ni	Zn
Min/Max	Rem	1.3 - 1.7	0-0.05	0.3-0.8	4.8 - 6.2	0-1.0

PHYSICAL PROPERTIES

Melting Point - Liquidus °F	2050
Density/lb/cu in. at 68 °F	0.323
Specific Gravity	8.94
Electrical Conductivity% IACS at 68 °F	14
Thermal ConductivityBtu/ sq ft/ ft hr/ °F at 68 °F	37
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 - 572 °F)	9.7
Specific Heat CapacityBtu/ lb / °F at 68 °F	0.09
Modulus of Elasticity in Tensionksi	17000
Modulus of Rigidityksi	6400

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 & Plant
Plot No. 6 & 7, Village: Lakhavaval, Post: Khodiyar Colony, Jamnagar - 361006.
Tel.: +91-288-2889251 / 52, Fax: +91-288-2889223, Cell: +91-9924443396
Email: info@metalalloyscorp.com • web: www.metalalloyscorp.com



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