

C96900 Nickel Tin Bronze Spinodal Hollow Rods

C96900 Nickel Tin Bronze Spinodal is ideal for using in tough environments. The alloy possess high strength, anti-galling properties, non-magnetic, excellent machinability, corrosion resistance and good bearing properties.

It is used in bushings and bearings for aircraft, industrial equipment, and heavy equipment. It is also used for oil and gas drilling hardware including rotary steerable housings, kelly valve seats and pressure housings.

C96900 in the hot worked and spinodally hardened (AT/TX00) condition exhibits tensile strength up to 140 ksi in a copper nickel tin alloy with excellent machinability.



Typical Uses :

- Defense, Electronics, Heavy Equipment, Marine, Oil & Gas, Performance Racing, Plastic Mold Tooling

Chemical Composition:

	Cu	Ni	Fe	Mn	Nb	Pb	Sn	Zn
Min/Max	Reminder	14.5-15.5	0.05 max	.05-.3 max	0.1 max	0.02 max	7.5-8.5	0.5max
Nominals	-	-						

Physical Properties

Density	0.325	Lbs. per cubic inch @ 68°F (annealed)
Modulus	21	Elastic modulus in tension x 106 P.S.I.
Electrical Conductivity	9	% IACS at 68°F (annealed)
Thermal Conductivity	22	BTU per foot per hour per °F at 68°F (annealed)
Thermal Expansion	9.1	Inches per inch x 10 ⁻⁶ from 68°F to 572°F

Sizes Available:

ROUND RODS	8mm To 70 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

Regd. Office & Plant

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