



SHREE EXTRUSIONS LIMITED

C19140

LOW LEADED NICKEL COPPER

C19140 is unique precipitation hardening alloys containing copper, lead, nickel and phosphorus. The nickel and phosphorus in the alloy combine to form nickel phosphate, which dissolves in the copper on heating to a suitable temperature, and can be retained by quenching. Subsequent aging will precipitate the nickel phosphate from solid solution in a highly dispersed manner thereby creating a remarkable hardening and strengthening effect with excellent stress relaxation properties. Subsequent cold working increases the strength still further.

TYPICAL USES

ELECTRICAL: Contacts, Sockets, Connector Pins

CHEMICAL COMPOSITION

	Cu (1)	Fe	Pb	Ni	P	SnZn
Min/Max	Rem.	.05	.40 - .8	.8 - 1.2	.15 - .35	.05-.50
Nominals	98.2	-	.6	1.0	.20	--

PHYSICAL PROPERTIES

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

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

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