

C79860 Nickel Silver

Applications:

- **Consumer** : Ballpoint Pen Tips, Eyeglass Frames
- **Industrial** : Connectors, Fiberoptics, Lock Pins



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Equivalent Specifications:

Specifications	Designation
BS	
EN	CW407J/CW408J
JIS	
DIN	2.0750
ISO	CuNi12Zn37Mn6Pb2
Russian (GOST)	

Chemical Composition:

	Cu	Pb	Sn	Zn	Fe	P	Ni	Mn	Si
Min/Max %	42.3-43.7	1.3-1.8	0.10	REM.	0.20	0.005	11.8-12.7	5.6-6.4	0.06

Specifications:

Ingots	
Bar	
Square	
Billets	
Plate	
Sheet	
Flat	
Rods	
Profiles	
Wire	
Hollows	
Hex	
Tubes	

Fabrication Properties:

Joining Technique	Suitability
Brazing	Fair
Butt Weld	Fair
Capacity for Being Cold Worked	Fair
Capacity for Being Hot Formed	Good
Coated Metal Arc Welding	Fair
Gas Shielded Arc Welding	Fair
Forgeability Rating	80
Oxyacetylene Welding	Fair
Seam Weld	Fair
Soldering	Good
Spot Weld	Fair

Mechanical Properties:

Form	Temper	Temper Code	Tensile Strength (ksi)	Elongation (%)	YS-0.2% Offset	Section Size (in)
Rod	Extra Hard	H06	103 Min 110 Typ	1 Min	84 Min 93 Typ	<.250
	Hard	H04	88.5 Min 94 Typ	5 Min	65 Min 74 Typ	<.250
		H04	88.5 Min 94 Typ	5 Min	65 Min 74 Typ	>.250
Wire	Extra Hard	H06	103 Min 110 Typ	1 Min	84 Min 93 Typ	<.250
	Hard	H04	88.5 Min 94 Typ	5 Min	65 Min 74 Typ	>.250
		H04	88.5 Min 94 Typ	5 Min	65 Min 74 Typ	<.250

Physical Properties:

Melting Point – Liquidus	1670°F
Melting Point – Solidus	1607°F
Density	0.3 lb/cu in. at 68°F
Specific Gravity	8.3
Electrical Conductivity	5% IACS at 68°F
Thermal Conductivity	17.4 Btu/ sq ft/ ft hr/ °F at 68°F
Coefficient of Thermal Expansion 68-212	10.6 10 ⁻⁶ per °F (68 – 212°F)
Specific Heat Capacity	0.1Btu/ lb /°F at 68°F
Modulus of Elasticity in Tension	16700 ksi

Sizes Available:

HOLLOW RODS	Min Bore Size 20 mm and Max OD 100 mm
ROUND RODS/BARS	6mm To 130 mm
WIRES	1mm To 8mm
HEX	5mm To 60mm
SQUARE	4mm To 60mm
FLAT	5mm Min Thickness and max Width 120mm
PROFILES / SECTIONS	AS per Customer Drawing
BILLETS	Up to 200 mm
INGOTS	AS per Specification