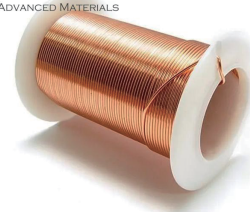


## Technical Data Sheet

**Product Name:** C70310 Nickel Silicon Copper Wire  
**Catalog No.:** CU6146  
**UNS No.** C70310  
**Standard** ASTM B422  
**Shape:** Wire



### Specification

Form	Dia.	Standard
Wire	0.2-10 mm	ASTM B422

### Properties

Properties	Unit	Value
Density	(g/cm <sup>3</sup> )	8.87
Coefficient of Thermal Expansion	/ °C (20-300°C)	17.6 x 10 <sup>-6</sup>
Specific Heat Capacity	J/(g·K)	0.399
Thermal Conductivity	W/m · K at 20 C	190
Electrical Conductivity	% IACS @ 68 F	40
Thermal Coefficient of Electrical Resistance	/K	3*10 <sup>-3</sup>
Elastic Modulus	GPa	130

### Chemical Composition (%)

UNS No.	Cu	Pb	Sn	Zn	Fe	P	Ni	Ag	Mg	Si	Zr
<b>C70310</b>	Bal.	0.05	1.0	2.0	0.10	0.05	1-4	0.02-0.50	0.1	0.08-1.0	0.005-0.05

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By..... *Woman* .....