

Technical Data Sheet

Product Name: C70310 Nickel Silicon Copper Rod
Catalog No.: CU6145
UNS No.: C70310
Standard: ASTM B422
Shape: Rod



Specification

Form	Dia. (mm)	Length	Standard
Rod	3-50	customized	ASTM B422

Properties

Properties	Unit	Value
Density	(g/cm ³)	8.87
Coefficient of Thermal Expansion	/ °C (20-300°C)	17.6 x 10 ⁻⁶
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 ⁻³
Elastic Modulus	GPa	130

Chemical Composition (%)

UNS No.	Cu	Pb	Sn	Zn	Fe	P	Ni	Ag	Mg	Si	Zr
C70310	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

Stanford Advanced Materials

By..... *Woman*