POWELL INDUSTRIES

Contact us at **425-226-4594** or **WWW.POWELLINDUSTRIES.COM**



PII100SN Solid Bar and Wire

Physical Properties

Melting Temp (°F)	440.6
Melting Temp (°C)	227
Density (lg/cm³)	7.4
Expansion (%)	48
Deformation in the Traction	> 300 hours
Electrical Conductivity (μΩm) (with 1kg load at 180°C)	40.09
Resistance to Traction (N/mm2)	32.3
Thermal Fatique (-40/+80°C)	>1000 Cycles

Chemical Composition

ELEMENT	PII100SN(%)	SN100C (%)
Tin (Sn)	Balance	Balance
Copper (Cu)	0.6 - 0.8	0.6 - 0.8
Germanium (Gel)	0.005 - 0.007	0.005 - 0.007
Nickel (NI)	0.04 - 0.06	0.04 - 0.06
Silver (Ag)	Max. 0.05	Max. 0.05
Aluminum (Al)	Max. 0.002	Max. 0.002
Arsenic (As)	Max 0.03	Max. 0.03
Gold (Au)	Max. 0.03	Max. 0.03
Bismuth (Bi)	Max. 0.03	Max. 0.03
Cadmium (Cd)	Max. 0.002	Max. 0.002
Iron (Fe)	Max. 0.02	Max. 0.02
Indium (In)	Max. 0.03	Max. 0.03
Lead (Pb)	Max. 0.05	Max. 0.05
Antimony (Sb)	Max. 0.05	Max. 0.05
Zinc (Zn)	Max.0.002	Max. 0.002