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ELECTRONIC COMPONENTS
AND PACKAGING

DATA SHEET: 82 Gold – 18 Indium

Physical Property Information:

Purity	99.99% minimal (weight per cent)
Melting range	
Solidus	488°C
Liquidus	530°C
Density	14.90 Mg m ⁻³
Coefficient of Thermal Expansion (CTE)	14.7 ppm/°C
Electrical Resistivity	16 μΩ cm
Thermal Conductivity	50.4 W/m°K

Mechanical Properties:

Ultimate Tensile Strength:	MPA (ksi)
23°C	233 (39.9)
100°C	228 (33.1)
150°C	140 (20.3)
190°C	120 (17.4) est.
280°C	80 (11.6) est.

Young's Modulus:	GPA (10 ⁶ psi)
23°C	50.5 (7.32)

Typical impurity levels for the min. 99.99%-purity electronic grade alloy are less than:
Sb: 0.005, Pb: 0.005, Ni: 0.003, Al: 0.005, Bi: 0.005, Fe: 0.005, Zn: 0.005, As: 0.002, Cd: 0.001 and Sn:
0.005

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