



AIM Specialty Materials
25 Kenney Drive
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Physical Property Information, Gold Eutectic Solders

Available as: Wire, Paste, Foil, Preforms, Evaporation Pellets, Powder

80Au 20Sn

<u>Ultimate Tensile Strength</u>		<u>AuSn</u>
MPA (ksi)		
23°C		469 (68)
120°C		270 (39)
165°C		166 (24)
190°C		90 (13)
<u>Young's Modulus</u>		
GPA (10 ⁶ psi)		
23°C		59.2 (8.58)
150°C		35.8 (5.19)
<u>Thermal Conductivity</u>		
W/M°K		57.3
<u>Coefficient of Thermal Expansion</u>		
ppm/°C		
Heating	(30°C - 168°C)	19.91
	(168°C - 225°C)	-79.10
	(30°C - 225°C)	-8.40
Cooling	(150°C - 25°C)	15.82
	(225°C - 150°C)	-43.42
	(225°C - 25°C)	-6.39