



SCIENTIFIC ALLOYS

SPHERES IN MOTION

Technical Data Sheet

80Au 20Sn

Physical Properties:

Alloy: 80Au 20Sn

Melting Point/Range: 280°C Eutectic

Tensile Strength: 40 Ksi

Specific Gravity: 14.52 g/cm³

Coefficient of Thermal Expansion: 15.9 x 10⁻⁶/°C

Thermal Conductivity: 57.3 Wm⁻¹ K⁻¹

Elongation: 2%

Electrical Resistivity: 16.4 X 10⁻⁸ Ω -m

Application:

80Au 20Sn is a thermodynamically superior solder which provides terrific wettability, ultra-high-strength joints, and highly reliable connections. Combining the lead-free, corrosion resistance of braze but at much lower temperatures, these spheres can be used without flux and have very good thermal and electrical conductivities.

Disclaimer:

This is for informational purposes only and assuming proper handling and operation is deemed accurate based on current data.