



SCIENTIFIC ALLOYS

SPHERES IN MOTION

Technical Data Sheet

95Pb 5Sn

Physical Properties:

Alloy: 95Pb 5Sn

Melting Point/Range: 308 - 312L°C

Tensile Strength: 4.0 Ksi

Specific Gravity: 11.06 g/cm³

Coefficient of Thermal Expansion: $30 \times 10^{-6}/^{\circ}\text{C}$

Thermal Conductivity: 0.23 W/cm-°C

Elongation: 45%

Hardness: 8 HB

Electrical Conductivity: 8.8% IACS

Application:

This alloy has a high melting range, very good mechanical strength, and good thermal fatigue properties. It is generally used in semiconductor components, die-attach applications, and step soldering, with flux or without flux in an inert or reducing atmosphere. The tin assures good wetting to various substances such as copper and au flash coatings.

Disclaimer:

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