

## **Technical Data Sheet**

## 95Pb 5Sb

Physical Properties of Bulk Alloy:

**Solder Alloy Composition Percentage:** 95Pb-5Sb

Melting Range: 252 - 300°C

Specific Gravity: 10.95 g/cm<sup>-3</sup>

Thermal Conductivity: 28 Wm<sup>-1</sup> K<sup>-1</sup>

Elongation (est): 29%

Coefficient of Thermal Expansion: 28 x 10<sup>-6</sup>/°C

Tensile strength (est.): 30 Mpa

Hardness: 11 HB

SAC Alloy purity far exceeds typical electronic grade levels.

## **Application:**

These spheres have very high thermal capacity and are used as packing or matrix in Regenerative Heat Exchangers/Thermal Regenerators within various types of Stirling, G-M, and Pulse Tube type cryocoolers, including second stage displacers. Their uniform shape and size provide strong geometrical arrangement in addition to precise area, volume, and porosity.

Also a semimetal, Lead Antimony is used in the semiconductor industry when reflow applications allow for ultra-clean soldering surfaces at or above 340°F (171°C).

Disclaimer:

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