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## **Data Sheet: 95 Tin-5Antimony**

### **Physical Properties of Bulk Solder**

Solder Alloy Composition	95Sn-5Sb (weight per cent)
Solidus	234°C
Liquidus	240°C
Density	7.250 Mg/m <sup>3</sup>
Young's Modulus	49.99 GNm <sup>-2</sup>
Hardness	150 HB
Electrical Conductivity	11.9% IACS
Electrical Resistivity	14.5 μΩ cm

### **Tensile Strength (Stress, Nmm<sup>-2</sup> )**

		<u>20°C</u>	<u>100°C</u>
Test speed	50 mm min <sup>-1</sup>	47.5	30.4
	20	46.5	28.6
	5.0	42.6	25.7
	1.0	36.3	24.6
	0.2	26.0	24.2
	0.05	30.0	19.9

Typical impurity levels for electronic grade are less than:

Au: 0.05    Cu: 0.08    Ni: 0.01 Al: 0.005  
Bi: 0.10 Fe: 0.02    Zn: 0.003    As: 0.03  
Cd: 0.002    In: 0.10 Pb: 0.10

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