



Solder Preforms | Engineered Solder Materials

TECHNICAL DATA SHEET 80au/20sn (Gold Tin)

Category: 80au/20sn

Name: Gold Tin

FEATURES

- Melting Point 280°C/536°F
- Provides great joint strength
- offers superior resistance to corrosion and superior thermal conductivity
- lead-free
- Compatible with precious metals

DESCRIPTION

Array Solders alloys are manufactured with virgin metals which meet the high standards. The purity level exceeds the industry requirements for allowable impurity levels which helps control dross levels.

80Au/20Sn is a thermodynamically superior solder which provides terrific wettability, ultra-high-strength joints, and highly reliable connections. While sometimes considered a brazing alloy, gold tin combines the lead-free, corrosion resistance of braze but at much lower temperatures, gold tin can be used without flux and provides excellent thermal and electrical conductivities.

APPLICATIONS

80au/20sn is used in a variety of applications requiring a high reliability, high melting solder joint. This includes die-attach and lid-attach for hermetically-sealed ceramic packages.

AVAILABILITY

This alloy is available in preforms, customized preforms and strip.

TYPICAL ANALYSIS

Principal Elements

Gold (au) 79-81%

Tin (sn) 19-21%



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Properties

Alloy	80au/20sn
Melting Point	280° C/536 ° F
Density (Troy oz/in3)	7.66
Specific Gravity	14.54
Electrical Conductivity (%IACS) (1)	8.30
Electrical Resistivity (Microhm-cm)	20.8
Color	Silver Gold

DISCLAIMER

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