



Solder Preforms | Engineered Solder Materials

## TECHNICAL DATA SHEET 63sn/37pb

**Category: Tin Lead Solder**

**Name: 63sn/37pb**

### FEATURES

- Melting point of 183° C/361 ° F
- Can be used with all types of flux
- Cost efficient
- Minimizes dross
- Solders at lower temperature
- Pot temperature 265-270°C

### 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.

63Sn/37Pb is a high purity alloy that is composed of 63% tin and 37% lead. 63Sn/37Pb is alloyed in a proprietary method that results in low dross, high wetting solder. The process reduces suspended oxides in the solder, which in turn, reduces dross, improving flow, and reducing bridging during soldering. 63Sn/37Pb is a eutectic alloy with a melting point of 183°C (361°F). Typical applications are wave soldering and plating where 63Sn/37Pb is primarily used as a coating for corrosion protection, and as a base for soldering. This alloy is available in preforms, bar, solid and cored wire, foil, spheres, powder, ingot and paste.

### APPLICATIONS

This alloy is suitable for different plating and soldering processes.

### AVAILABILITY

This alloy is available in preforms, bar, solid and cored wire, foil, spheres, powder, ingot and paste.

### TYPICAL ANALYSIS

#### Principal Elements

Tin (sn)	62.5-63.5%	Lead (pb)	Balance
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#### Maximum Impurity Levels

Silver (ag) 0.10	Gold (au) 0.05	Copper (cu) 0.08	Nickel (ni) 0.01
Aluminum (al) 0.001	Bismuth (bi) 0.10	Iron (fe) 0.02	Antimony (sb) 0.20
Arsenic (as) 0.03	Cadmium (cd) 0.002	Indium (in) 0.10	Zinc (zn) 0.002



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### Properties

Alloy	63sn/37pb
Melting Point	183° C/361 ° F
Density	8.8 g/cm3
Tensile Strength	67 MPa
Elongation	37%
Coefficient of Thermal Expansion	21.6
Young Modulus	31.5

### Handling

Please refer to the MSDS for handling instructions.

### DISCLAIMER

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