

Update:	TECHNICAL DATA SHEET	
Ref: Alloy	LEAD FREE Alloy	
Created on: 26/09/2023	Sn US	



GENERAL CHARACTERISTICS:

Patented alloy based mainly on Tin that is usable in ultrasonic soldering process.
Conform to RoHS 2011/65/EU directive.

Benefits :

- **Soldering on aluminium, on ceramic, on glass (most unsolderable substrates).**
- **Environmentally friendly (fluxless process)**
- **Corrosion free**
- **Easy to use (no fumes extraction system needed)**

Principle:

With this unique process, having an ultrasonic activated soldering tip, the addition of aggressive acid / fluxes is no longer required. The 'Ultrasonic Cavitation Phenomenon' cleans and removes the oxides on the surface of the substrate within the molten solder while soldering.

The high-energy ultrasonic vibration within the liquid solder breaks up the oxide layer on the surface of the substrate which has to be soldered. An immediate wetting of the cleaned surface is the result.

The solid soldering wire can be used in a lot of applications (especially when we want to prevent any electromigration).

CHEMICAL CHARACTERISTICS:

Amount of Antimony : 0 – 10 %
Amount of Tin : Rest
Tin from first melting – Antimony with purity > 99.9 %
Extra element to allow the ultrasonic behaviour of the alloy

PHYSICAL CHARACTERISTICS:

Melting point : 240°C – 245 °C
Specific weight : 7.3 g/cm³
Working temperature : depending on the application : mainly around 400 °C


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PACKAGING / STORAGE:

Solid solder wire : Standard : 1 mm diameter and 1.5 mm diameter.
On DIN or standard reel of 250g or 500g

Other product shape : On request

Storage : In original packaging at room temperature away from inclemencies
for 24 months.

<p><u>SAFETY:</u> Material Safety Data Sheet available on request. Please consult it before use.</p>	<p><u>ADDITIONAL INFORMATION:</u> Our manufacturing processes have been subjected to FMECA analysis (equivalent of AMDEC in France). Quality Certificate available on request.</p>	
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