

Date: 30/05/19
Ref.: Lead Free Alloy
Creation 30/05/19

# SPECIFICATION



## 'LEAD FREE SOLDER ALLOY Sn42Bi57Ag1'

### Solid Solder Wire Sn42/Bi57/Ag1

#### **1 – GENERAL CHARACTERISTICS:**

A range of **Lead Free Solder Alloys** for use in the assembly of electronic and electrical components in printed circuit board processes. Produced from very high quality, virgin metals and smelted under a nitrogen atmosphere. The manufacturing process minimises the formation of superficial oxides during production. These alloys provide alternatives to the traditional Leaded Alloys currently in use in turn ensuring solder joints formed remain bright and free of soldering defects through minimising defects such as bridges, flags and spikes during the soldering process.

The alloys exceed the requirements laid down in International Standards to include:

**NFC 90550, DIN 1707, B.S.219, BS EN Alloys and J-std 006.**

Product Highlights Low Temperature Melts at 138°C (281°F)

Lead-Free RoHS III compliant

Specification Alloy: Sn42/Bi57/Ag1 Solid Solder Wire diameter 0.8mm also available in other diameters on request

Packaging: 250gm, 500gm and 1kg reels – other packaging is available on request

Shelf Life: 2 year. Solid Solder Wire has no limited shelf life as long as it is stored in a non-corrosive, dry environment. The surface may lose its shine and appear dull grey. This is a surface phenomenon and is not detrimental to product functionality.

Recommended Flux is dependant on the materials being soldered. Contact MBO technical sales direct for recommendations

#### **2 – SUPPLIED AS:**

Wire & Tape : On spools of 250gms, 1kg – others on request

Solder Paste : Jars, Cartridges and Syringes

We cannot anticipate any and all conditions and situations under which the information and our products or the combination of both with others will be used. We do not assume any liability in the safety and suitability of our products alone or in combination with others. Users must make their own tests to determine the safety and suitability of each product used alone or with other products for their own use. Except any previous written agreement, our products are sold without guarantee and customers must assume all liability for any loss or damage suffered by themselves or by third parties, either from handling or use of our products alone or with others. In case of any difference or variation seen during the use of the products we request that you contact our technical department