

created : 11/04/02

Ref. : Alloy

Revised: 23/04/13

SPECIFICATION

Machine ALLOY

Sn 60 HT



1 – GENERAL CHARACTERISTICS:

Sn60HT is a ternary solder alloy with a high resistance to oxidation and for use at high temperature.
Sn60HT is produced exclusively by MBO.

2 – CHEMICAL CHARACTERISTICS:

- 2.1 Amount of Tin : 60 % +/- 1%
2.2 Amount of lead : 40 %
2.3 Amount of copper : < 0.24 %
Cu is not an impurity in this instance, but added.
2.4 Chart of maximum impurities :

Cu	Ag	Cd	Sb	Fe	Zn	Al	Bi	As	others
<0.24 %	<0.005 %	<0.002 %	<0.05 %	<0.02 %	<0.001 %	<0.001 %	<0.01 %	<0.01 %	<0.05 %

3– PHYSICAL CHARACTERISTICS:

- 3.1 Melting point : Solidus 183°C to Liquidus 189°C.
3.2 Working temperature : 380°C
3.3 Specific Weight : 8.5

4– METHODS OF USE:

This alloy is especially suitable for soldering parts used at high temperatures, and can be used in pots and baths. A surface film forms at 380°C which allows the penetration of wire for tinning but stops air oxidising the molten alloy. In particular this works very well strip/tinning enamelled copper wires.

5 – PACKAGING :

- 5.1 Standard : Sticks – 380x16x8mm in Cartons of 25 Kg.
Extruded bars in cartons of approx. 22 Kg
5.2 Others : Wire, ingots, other: on request.
5.3 Labelling : Cartons/containers labels show manufactured lot N° and Alloy.
5.4 QA : Certificates of conformity can be supplied with each lot if required.

6 – STORAGE :

- 6.1 : In original packaging, at an average temperature of 20°C for 12 months.