

MBO FAMILY OF NO-CLEAN SOLDER WIRE

Created Date: 13/01/2009 - Updated : 24/07/2020 Nr: 17



MBO family of no-clean solder wire “AUTOFIL” is carefully formulated to confer high activity soldering on various substrates, including, copper, tin/lead, brass, nickel, etc. Various activations are available to suit most oxidised metallisation.

- High activity
- Fast soldering
- Low fume
- Low odour
- Low spattering
- Lead-free option available
- RoHS compliant
- ISO 9453 and J-STD 006 compliant

Available alloys

Alloy	Melting point
Sn60Pb38Cu2	183 - 190°C
Sn60Pb40	183 - 190°C
Sn63Pb37	E - 183°C
Sn62Pb36Ag2	E - 179°C
Sn43Pb43Bi14	144 - 163°C
Pb93.5Sn5Ag1.5	296°C - 301°C
Sn95.5Ag3.8Cu0.7	E - 217°C
Sn96.5Ag3.5	E - 221°C
Sn97Cu3	227 - 310°C
Sn99.3Cu0.7	E - 227°C
Sn99CuSP	E - 227°C
Sn96.5Ag3Cu0.5	217°C - 220°C
Other	On request

PHYSICO-CHEMICAL CHARACTERISTICS

Alloys : Most alloys conforming to international standards available on request
 Flux content: 1 - 2 % (nominal).
 Flux type: Blend of rosin and modified rosin.
 Halide content: See table below

	A0	A11
Halide content	0 %	1.1 %
Flux content	1 to 1.5%	1.8 to 2.5% (lead free)
Acid number	250 mgKOH/g	140 mgKOH/g
J-STD-004 classification	ROL0	ROM1
SIR Test (IPC TM 650 2.6.3.7)	Pass	Pass
Application	SMT rework General application	SMT rework & highly oxidised substrates

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APPLICATION

MBO “AUTOFIL” range of solder wire confers rapid soldering with copper, tin/lead, brass and nickel. MBO “AUTOFIL” range of solder wire can be used in conjunction with various methods of soldering, such as soldering iron, hot air, induction, hot plate and blow torch. When used with a soldering iron, it is recommended to use an operating temperature of 370°C. Elevated temperatures can be used but some carbonisation of the flux may result.

RESIDUES REMOVAL

Post-soldering residues of MBO “AUTOFIL” range of solder wire can be removed with commercially-available solvents such as alcohols and hydrocarbons, and propriety cleaners.

STORAGE

In original packaging at room temperature for 24 months.

ADDITIONAL INFORMATION :

Our manufacturing processes have been subjected to FMECA analysis (equivalent of AMDEC in France).

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.