



FCT Assembly
LEADERS IN TECHNOLOGY

AO1000

Anti-Oxidant Solder Additive

Description

FCT Assembly has developed AO1000 Anti-Oxidant Solder Additive to aid in reducing the solder dross buildup in both static and wave soldering pots containing SN100C. Dross buildup can seriously affect the wetting abilities of the solder and can cling to component leads when they are removed from the bath. Use of AO1000 Solder Additive also will reduce the loss due to dross formation, which can reduce solder usage by as much as 50%.

AO1000 Solder Additive is added to the solder bath at the prescribed level and within a short time the oxides rise to the surface and can be removed. This leaves a surface protected by a thin, colorless film that will reduce further dross formation. No oxide remains on the solder surfaces, which stay, smooth and shiny. AO1000 Anti-Oxidant Solder Additive will protect a solder bath up to temperatures of 371°C (700°F). It is not recommended to exceed a solder pot temperature of 265°C. The anti-oxidant will oxidize faster at temperatures higher than this.

Use of AO1000 Anti-Oxidant Solder Additive offers the following advantages:

- Lead Free
- Less dross formed
- Better wetting
- Smooth, bright fillets
- Lower solder use
- Safer than chemical treatments
- Less mess than oil covers

Application

For static solder pots:

Maintain the level of control by adding 1-50g slug per 5 pounds of solder in the solder bath. If multiple slugs are to be added, then add one every 15 minutes, to give time for the AO1000 to dissolve.

For wave solder pots:

Maintain the level of control by adding 1-1000g Bar for every 500 pounds of solder in the solder pot. Additions should be made in the side pot, and not directly into the wave.

Recommendations

It is recommended to maintain a light dross covering on an SN100C solder pot. This will help to maintain the anti-oxidant content. The dross should also be perforated with a spatula periodically. This will help to return some of the anti-oxidant to the molten solder.

Packaging

AO1000 Anti-Oxidant Solder Additive are offered in two sizes:

- 250 gram plastic jar containing 5- 50g slugs
- 1000g Bar

RoHS Compliance

FCT AO1000 Anti-Oxidant Solder Additive meets the requirements of RoHS (Restriction of Hazardous Substances) Directive, 2002/95/EC Article 4 for the stated banned substances.

Health and Safety

Refer to the MSDS for guidance on safety and health issues.