



AO1000 ANTI-OXIDANT SOLDER ADDITIVE

GENERAL DESCRIPTION

Florida Cirtech has developed AO1000 Anti-Oxidant Solder Additive to eliminate the tarnish that can form on SN100CL HASL solder. AO1000 is a germanium (Ge) concentrate, and when added to SN100CL HASL solder will maintain a bright, shiny solder surface.

APPLICATION

- AO1000 Solder Additive is added to the solder bath at the prescribed level. This leaves a surface protected by a thin, colorless film that will reduce further tarnish. 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.

KEY ADVANTAGES

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

RECOMMENDATIONS

- It is recommended to maintain the Germanium concentration at 0.005 to 0.008 % wt (0.0065% nominal) in working SN100CL solder pots.

SAFETY AND HANDLING

Use in well-ventilated area and observe standard precautions for handling and use. Refer to the Material Safety Data Sheet for further information.

PROCESS CONSIDERATIONS

- **For HASL Solder Pots:**

Maintain the level of control through this formula for addition:

$$\text{AO1000 to add (lbs)} = (0.0065 - \text{Ge \% content}) \times (\text{solder pot in lbs}) \times 1.72$$

If multiple discs or bars are to be added, then add one every 15 minutes, to give time for the AO1000 to completely dissolve.

STANDARD PRODUCT AVAILABILITY

UNIT OF MEASURE
1000 g jar

MATERIAL SAFETY DATA SHEETS

Material Safety Data Sheets (MSDS) are available online at www.floridacirtech.com

