

# ALPHA<sup>®</sup> Sn63Pb37 VACULOY<sup>®</sup> SOLDER ALLOY

## DESCRIPTION

**ALPHA Sn63Pb37 Vaculoy** is manufactured using high purity raw materials and the alloy is conditioned using Alpha's Vaculoy viscosity and dross lowering treatment. This results in a pure low dross high fluidity solder alloy, which is free of cast in impurities and included oxides.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

## FEATURES & BENEFITS

ALPHA Sn63Pb37 Vaculoy treated prior to casting: this removes finely divided suspended oxides that are found in all virgin raw materials. This increases the fluidity and hence soldering defects.

- The remove of the finely divided oxide reduces crossing rate, the wave stays cleaner, longer.
- Has a proven track record; no need to take chances.

## APPLICATION GUIDELINES

ALPHA Sn63Pb37 Vaculoy is the ideal companion product for all wave soldering systems. ALPHA Sn63Pb37 Vaculoy is ideal for the following types of applications:

- High volume wave soldering processes
- Applications requiring dual wave and chip wave systems
- Boards that are densely populated

A solder pot temperature of 240 to 250 °C is recommended. For suitable wave solder fluxes, contact your local sales representative. Reclaim services, including dedicated lead-free containers, are also available. Please consult your local sales office.

**TECHNICAL SPECIFICATIONS**

The following indicates the alloy and impurity limits for ALPHA Sn63Pb37 Vaculoy in relation to J-STD-006C. All figures in % by weight. \*For 60Sn/40Pb, Sn is 59.5 to 60.5%.

Element	Vaculoy	J-STD-006C
Sn	*62.5 to 63.5	62.5 to 63.5
Pb	Balance	Balance
Sb	0.20 max	0.20 max
Cu	0.08 max	0.08 max
Zn	0.003 max	0.003 max
Fe	0.02 max	0.02 max
As	0.03 max	0.03 max
Ni	0.01 max	0.01 max
Bi	0.10 max	0.10 max
Cd	0.002 max	0.002 max
Ag	0.10 max	0.10 max
Al	0.005 max	0.005 max
In	0.10 max	0.10 max
Au	0.05 max	0.05 max

**AVAILABILITY**

ALPHA Sn63Pb37 Vaculoy is available in 3.5 kg feeder bars, 1 kg bars, solid wire, and solder chunks for first fill of solder baths. Vaculoy is also available in other SnPb solder alloys such as 60Sn40Pb.

**RECYCLING SERVICES**

We provide safe and efficient recycling services to help companies meet their environmental and legislative requirements and at the same time, maximize the value of their waste streams. Our service collects solder dross, solder scrap, and various forms of solder paste waste. Please contact your local sales representative for recycling capabilities in your area.



**SAFETY & WARNING**

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

**CONTACT INFORMATION**

[www.macdermidalpha.com](http://www.macdermidalpha.com)

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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

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