

ALPHA® Vaculoy® Wave Solder

DESCRIPTION

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.

FEATURES & BENEFITS

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

VACULOY is the ideal companion product for all wave soldering systems. VACULOY is idea 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 240-250° is recommended. For suitable wave solder fluxes, please see our selector guide. 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 VACULOY in relation to J-STD-006A.

| ELEMENT | VACULOY A | J-STD-006A (Variation A) |
|---------|------------|-----------------------------|
| Sn | *62.5-63.5 | 62.5-63.5 |
| Pb | Balance | Balance |
| Sb | 0.50 max | 0.50 max |
| Cu | 0.08 max | 0.08 max |
| Zn | 0.003 max | 0.003 max |
| Fe | 0.01 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 | 0.005 max | 0.005 max |
| Al | 0.10 max | 0.10 max |
| In | 0.10 max | 0.10 max |

All Figures are %

- 1) J-STD-006A: May 2001 Requirements for Electronic Grade Solder alloys and non-fluxed solders. Joint Industry Standard between IPC and Electronic Industries Alliance (US Based). IPC formed in 1957 as an Institute of Printed Circuits. J-STD-006A supercedes IPC-SF-818.

*For 60Sn/40Pb 59.5-60.5 Sn

SM958-1 2014-10-13

an Alent plc Company

ALPHA Global Headquarters
300 Atrium Drive, Somerset, NJ 08873 USA • 1-800-367-5460 • www.alpha.alent.com

The information contained herein is based on data considered accurate and is offered at no charge. No warranty is expressed or implied regarding the accuracy of this data. Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of any materials designated.

ALPHA is a registered trademark of Alpha Metals, Inc.

© 2014 ALPHA

ALPHA® Vaculoy® Wave Solder

AVAILABILITY

VACULOY is available in 3.5 kg feeder bars, 1 kg bars, and solder chunks for first fill of solder baths.
VACULOY is available in the following standard alloy: 63Sn/37Pb and 60Sn/40Pb.

SAFETY

Please refer to MSDS for advice on proper handling and safety instructions.