



# Consolidated Alloys

A Division of C.A. Group Australasia Pty. Limited inc in Vic.  
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## ULTRAPURE – 63/37 SOLDER

**PRODUCT DESCRIPTION** **Ultrapure 63/37 Solder** is manufactured using high purity virgin metals and is **extruded under vacuum**. This special manufacturing procedure ensures that the solder is oxide free thus reducing dross formation and improving solder fluidity and wetting, resulting in clean solder joints with minimal possibility of defects.

Ultrapure 63/37 solder far exceeds the requirements of both the Australian and British Standards.

**APPLICATIONS** Ultrapure solder can be used in all relevant soldering applications, e.g. wavesoldering, solder leveling, however is ideally suited to the stringent requirements of Surface Mount Technology.

**AVAILABLE FORMS** Ultrapure solder is manufactured in 63/37 formula only and is available in extruded 0.5 Kg. bars chip for bath start up and 4 & 5 diameter wire for automatic solder feed machines.

**SPECIFICATION** The following table gives the specification for 63/37 in comparison to the Australian Standard AS 1834. 1-1991 and British Standard BS219 1977 AP Alloy.  
The impurity values are maximum limits

| <u>ELEMENT</u> | <u>AS1834</u> | <u>BS219</u> | <u>ULTRAPURE</u> |
|----------------|---------------|--------------|------------------|
| Sn             | 62 - 64       | 63 - 64      | 62.5 - 63.5      |
| Sb             | 0.02          | 0.02         | 0.009            |
| Cu             | 0.08          | 0.08         | 0.005            |
| Ni             | N/A           | N/A          | 0.002            |
| Zn             | 0.003         | 0.003        | 0.001            |
| Fe             | 0.02          | 0.02         | 0.005            |
| As             | 0.03          | 0.03         | 0.005            |
| Bi             | 0.1           | 0.1          | 0.01             |
| Ag             | N/A           | N/A          | 0.005            |
| Al             | 0.001         | 0.001        | 0.001            |
| Cd             | 0.005         | 0.005        | 0.001            |
| Pb             | Balance       | Balance      | Balance          |

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