



AIM 63/37 Tin Lead Solder Bar


The AIM Solder Bar is manufactured to strict quality control procedures to guarantee that the exacting specifications are met.

As can be seen in the table below, AIM High Purity Solder meets or exceeds in all respects, the requirements of the relevant European Standard. (This standard does not demand the use of virgin materials.)

Extensive research over many years has shown that even these permitted levels of impurities can produce detrimental effects in soldering production techniques. Put simply, purchase of inferior and initially cheaper solder could result in the premature need to change your solder bath.

The manufacturing process ensures that existing trace impurities in the raw materials are significantly reduced in content. We then ensure that these lower levels are consistently maintained giving the following advantages:

- * Low operating temperatures
- * Improved wetting giving consistency of performance
- * Production of bright joints with low contact angle
- * Reduction of tendency to icicling and bridging
- * Reduced consumption
- * Longer bath life
- * Reduced drossing (virtually none with initial melt) with low rate of surface oxidation

| Specification comparison for best quality High Purity Wave Solder Ingots | | | | | |
|--|---|--------------|----------------------|----------|--|
| Element |  BS EN 29453 Alloy No.1/1a | | GWN Typical Analysis | | |
| | | % | | % | |
| Tin | Sn | 62.5 to 63.5 | Sn | 63 to 64 | Made from best quality virgin Tin/Lead Tin 99.965% Lead 99.999% purity. Manufactured to surpass all standards and quality specifications for this kind of product |
| Antimony | Sb | 0.05 max | Sb | <0.05 | |
| Cadmium | Cd | 0.002 max | Cd | <0.001 | |
| Zinc | Zn | 0.001 max | Zn | <0.001 | |
| Aluminium | Al | 0.001 max | Al | <0.0001 | |
| Bismuth | Bi | 0.05 max | Bi | <0.01 | |
| Arsenic | As | 0.03 max | As | <0.001 | |
| Iron | Fe | 0.02 max | Fe | <0.001 | |
| Copper | Cu | 0.05 max | Cu | <0.001 | |
| Silver | Ag |) | Ag | <0.001 | |
| Gold | Au |) others | Au | <0.001 | |
| Nickel | Ni |) total | Ni | <0.001 | |
| Phosphorus | P |) 0.08% | P | <0.001 | |
| Sulphur | S |) | S | <0.0004 | |