

HIFLO[®] SMG

- Very low dross, reduced skips, bridges and icicling.
- Ideal for densely populated boards.
- Enables increased production speeds and yield improvements.
- Reduced solder pot maintenance.
- Fine pitch soldering.

DESCRIPTION

HiFlo[®] is manufactured using ultra high purity raw materials and the alloy is conditioned using Alpha's proprietary viscosity and dross lowering treatments. This results in a pure, low drossing, high fluidity solder alloy, which is free of cast-in impurities and included oxides.

FEATURES & BENEFITS

- *Increases Production Speed:* which means lower product cost.
- *Minimises drossing:* lowers downtime for maintenance and reduced solder consumption and cost.
- *Reduces bridging:* lower amount of rework to higher yield, lowers cost and reduces chances of defects getting to consumer.
- *Solders densely populated boards:* can be used on all your applications, you only need to stock one grade.
- *Solders at a lower temperature:* lower temperatures mean less oxide production and hence lower solder usage and cost.

APPLICATIONS

HiFlo[®] SMG is the ideal companion product for all wave soldering systems including inert atmosphere equipment. HiFlo[®] SMG is ideal for the following types of application:

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

AVAILABILITY

HiFlo[®] SMG is available in 3.5Kg feeder bars, 1Kg bars and solder chunks for first fill of solder baths.



Cookson Electronics ASSEMBLY MATERIALS

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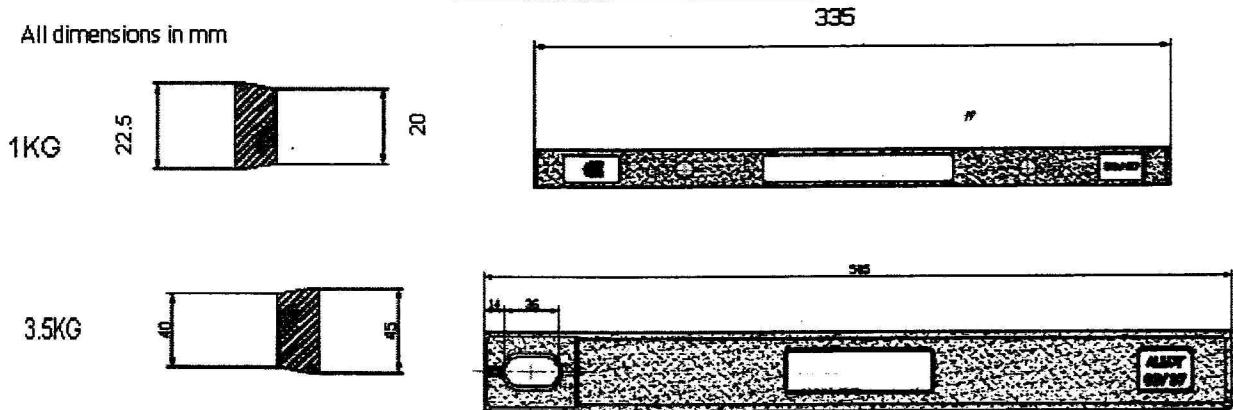
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HEALTH & SAFETY

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

DIMENSIONS OF BARS

All dimensions in mm



TECHNICAL SPECIFICATION

The following indicates the Alloy and impurity limits for HiFlo[®] SMG in relation to J-STD-006A, ISO9453 and JIS Z3282.

ELEMENT	HiFlo [®] SMG	ISO 9453 Alloy 1A ¹	J-STD-006A Sn63Pb37C ²	JIS Z3282E H63E ³
Sn	62.5-63.5	62.5-63.5	62.5-63.5	62.5-63.5
Pb	Balance	Balance	Balance	Balance
Sb	0.05 max	0.05 max	0.05 max	0.05 max
Cu	0.005 max	0.05 max	0.08 max	0.05 max
Zn	0.001 max	0.001 max	0.003 max	0.001 max
Fe	0.001 max	0.02 max	0.02 max	0.02 max
As	0.005 max	0.03 max	0.03 max	0.03 max
Ni	0.002 max	Not specified	0.01 max	Not specified
Bi	0.005 max	0.05 max	0.10 max	0.05 max
Cd	0.001 max	0.002 max	0.002 max	0.002 max
Ag	0.005 max	Not specified	0.10 max	Not specified
Al	0.001 max	0.001 max	0.005 max	0.001 max
In	0.005 max	Not specified	0.10 max	Not specified

All figures are %

1. ISO 9453: 1990

Soft Soldering Alloys - chemical composition and form. ISO - International Standards Organisation, a network of national standards institutes working in partnership.

2. 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.

3. JIS Z3282:1999

Soft solders chemical composition and forms. JIS - Japanese Industrial Standard.