

PureFlow- 99C LEAD FREE Solder

SURFACE MOUNT QUALITY SOLDER BAR & CHUNKS

Available from your officially appointed Multicore agent

- **Low-Cost Tin/Copper Solder**
- **Reduced Drossing**
- **Better Reliability than Sn/Pb**
- **Less Dense, more joints per kilo (compared to tin/lead)**

Formulated as an economic lead free alternative to traditional tin/lead solders for use in modern assembly, to give a balance of cost against performance. This alloy may not be suited to all mass production environments.

Compliance Table

Typical Analysis 99C		Suggested Levels
Tin	Balance	Balance
Silver (max)	0.05%	0.05%
Copper	0.6-0.8%	0.45-0.9%
Arsenic	0.03%	0.03% max
Gold	0.005%	0.005% max
Bismuth	0.01%	0.1% max
Cadmium	0.002%	0.003% max
Iron	0.02%	0.02% max
Nickel	0.007%	0.005% max
Zinc	0.001%	0.001% max
Lead	0.01%	0.1% max
Antimony	0.05%	0.05% max

Recommended Operating Conditions

PureFlow-99C solder is suitable for use in dynamic and turbulent solder wave systems.

The optimum temperature range for operation of the solder bath is 270°C ± 10°C.

To ensure the continued optimum performance of **PureFlow-99C** solder in your manufacturing process it is important that periodic analysis of the solder bath contents is undertaken to verify that the alloy composition is maintained within strict limits. Any build-up of undesirable impurity elements or an increase in the copper content may lead to poor flow characteristics and non-ideal solder joint structure, with a consequent rise in defect rates. Your distributor will be pleased to discuss with you details of our analysis programme.

Technical Specifications

Property	Value
Solidus	227°C
Liquidus	240°C
Density	7.3grm/cc
Hardness (Hv)	14.1

Manufacturing Control

All **PureFlow-99C** bar solders are made with fully traceable batches of virgin metals within a Quality Management System that has been approved to BS EN ISO9001 2000 and Environmental Management System approved to BS EN140001. Samples are retained from every batch of solder for a minimum three year period.

Availability

STYLE	NOM. WEIGHT	DIMENSIONS	PACKING
Bar	1kg	300 x 32 x 12mm	20kg Carton
Autofeed Ingot	4.3kg	500 x 45 x 33mm	4.3kg
Chunks	-	-	5kg Carton

Please contact your sales team with any specific non standard bar or ingot size to check on availability.

Health and Safety

Warning:

The following information is for guidance only and users must refer to the Material Safety Data Sheets relevant to **PureFlow-99C** solder products before use.

Protection and Hygiene:

Eating, drinking and smoking should not be permitted in the working area. Hands should be washed with soap and warm water after handling solder, especially before eating.