Technical Data Sheet

PRODUCT DESCRIPTION:	**Surface Mount Solder Paste**	**DATE:**	**03/97**
PRODUCT CODE:	**SMSP**	**PAGES:**	**1**

PRODUCT DESCRIPTION

Electrolube's Surface Mount Solder Paste is a long tack time, screen printable solder cream that may also be used through "dot" dispensing equipment.

SMSP is a standard 63Sn / 35Pb / 2Ag product with excellent solderability and reliability characteristics.
The actual solder powder used in **SMSP** is produced by the "centrifugal atomisation method" (commonly referred to as "spattering") which results in perfectly spherical solder particles. This process also ensures that no submicron particles of solder are generated which can often contribute to "solder balling" problems.
This specialised solder is mixed with a premium flux which minimises drying out and results in a product that exhibits a 24 hour tack time, does not require cleaning, has excellent moisture retention characteristics and dispenses and prints with superior reproducibility.

FEATURES of SMSP

* Excellent wetting characteristics to ensure a sound fillet.
* Thixotropic consistency for non-slump high resolution dots and better print quality.
* Long tack time prior to heating and reduced drying out when screen printing.
* Melting point of 183°C for use in both IR and vapour phase soldering.
* 20 - 50 micron particle size for quality screen printing.
* Excellent reflow characteristics, no solder balling.
* No post-cleaning necessary.
* 'Luer Lock' type adapter head for use with dispensing equipment and hand plunger for manual use.

TYPICAL PROPERTIES

Colour:	Grey Paste
Consistency:	Thixotropic
Viscosity:	1800 P.S. @ 25°C
Particle Size:	20 - 50 micron
Melting Point:	183°C
Composition:	63% tin; 35% lead; 2% silver
Metal Content:	88%
Halide Content	0.2%
SIR (before humidifying) (ohms)	1×10^{12}
SIR (after humidifying) (ohms)	1×10^{11}
Copper Plate Corrosion	Pass
Cleaning with **Electrolube Safewash Range**	Suitable
Cleaning with **Electrolube ULS/FLU:**	Suitable
Shelf Life:	12 months @ 0 - 10°C

PACKAGING	ORDER CODE
10ml Syringe (contains 25g)	**SMSP10SL**

Copyright Electrolube 1997
All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification. Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

ELECTROLUBE Wentworth House, Blakes Road, Wargrave, Berkshire, RG10 8AW, UK
Telephone: +44(0) 118 940 4031/ 3014 Fax: +44(0) 118 940 3084
ISO 9002 Registered Firm. Certificate No. FM 32082