

# Technical Data Sheet



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<b>PRODUCT DESCRIPTION:</b>	<b>Surface Mount Solder Paste</b>	<b>DATE:</b>	<b>03/97</b>
<b>PRODUCT CODE:</b>	<b>SMSP</b>	<b>PAGES:</b>	<b>1</b>

## 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)	$1 \times 10^{12}$
SIR (after humidifying) (ohms)	$1 \times 10^{11}$
Copper Plate Corrosion	Pass
Cleaning with <b>Electrolube Safewash Range</b>	Suitable
Cleaning with <b>Electrolube ULS/FLU:</b>	Suitable
Shelf Life:	12 months @ 0 - 10°C

## PACKAGING

10ml Syringe (contains 25g)

## ORDER CODE

**SMSP10SL**

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