

4901



Sn99 No-Clean Solder Wire

4901 is a solder wire for electronics. It uses a high-purity eutectic Sn99.3/Cu0.7 alloy, with a no-clean, synthetically refined, splatter-proof resin flux core. Sn99 solder is a great lead-free alternative to leaded solders. It is a suitable and less costly replacement for SAC305.

It achieves a consistent solder and flux percentage due to our state-of-the-art extrusion wire-drawing machine, which continuously monitors the wire to prevent voids and ensure consistency,

Features & Benefits

Eutectic alloy (liquidus=solidus temperature)

Alloy exceeds J-STD-006C and meets ASTM B 32 purity requirements

Flux meets J-STD-004B

Resin spreads like rosin-activated flux

Virtually non-splattering

Non-corrosive and non-conductive

Halide-free

Suitable for Use in Food Facilities as a Non-Food Chemical
Canadian and NFS recognition letters available on request



Available Packaging

Part #	Packaging	Gauge	Diameter	Net Wt.
4901-112G	Spool	21	0.032"	112 g
4901-227G	Spool	21	0.032"	227 g
4901-454G	Spool	21	0.032"	454 g

Storage and Handling

Store between 18 and 25 °C in a dry area, away from sunlight (see SDS).

Properties

Flux Classification	RELO	J-STD-004B, MIL-F-14256F
Flux Type	Resin	J-STD-004B
Flux Activity	Low	J-STD-004B
Copper Mirror	No removal	IPC-TM-650 2.3.32
Corrosion Test	Pass	IPC-TM-650 2.6.15
Flux Residue Dryness	Pass	IPC-TM-650 2.4.47
Surface Insulation Resistance (SIR)	$2.3 \times 10^{11} \Omega$	IPC-TM-650 2.6.3.7
Electromigration (ECM)	Pass	Bellcore GR-78-CORE 13.1.4
Acid Number (mgKOH/g sample)	190–210	IPC-TM-650 2.3.13
Halides (by weight)	<0.05%	IPC-TM-650 2.3.35
Silver Chromate (Cl ⁻ + Br)	Pass	—
Softening Point of Flux Residue	24 °C	—
Solder Spread	130 mm ²	—
Splitting of Flux, cored wire solder	0.30 %	—
Post Reflow Flux Residue	55 %	—
Bellcore (Telecordia)	$6.1 \times 10^{11} \Omega$	—
Shelf Life	10 y	—

Disclaimer: This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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