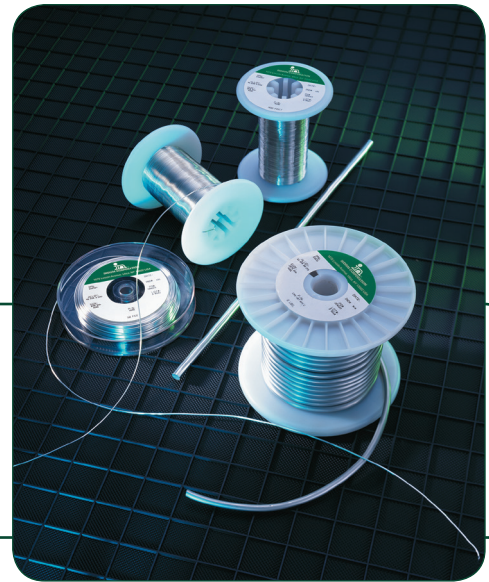


PRODUCT DATA SHEET

CW-501

No-Clean Cored Wire Solder



Introduction

CW-501 wire solder is cored with a high-reliability no-clean flux that is compatible with Indium Corporation's full line of Pb-free soldering materials. It provides excellent solder spread with minimal smoking and low odor. The fast wetting speed is beneficial in minimizing rework cycle time, which is typically longer with Pb-free solders.

Features

- Optimized for use with SnPb and Pb-free assembly and rework processes
- Fast and excellent wetting to common Pb-free surface finishes including: ImmSn, ENIG, OSP and ImmAg
- Minimal spattering and low odor
- Resistant to charring
- Reduced smoking
- Colophony-free

Product Description

Spool Weight	1/4lb, 1lb, 125gm, 500gm
Available Alloys	Per J-STD-006A Variation C Sn96.5/Ag3.0/Cu0.5 (SAC305) Sn63/Pb37 Sn62/Pb36/Ag2

Bellcore and J-STD Tests and Results

Test	Result
J-STD-004A (IPC-TM-650)	
Flux Type Classification	REL1
Copper Mirror	Type L
Silver Chromate	Pass
Fluoride Spot Test	Pass
Corrosion	Pass
SIR	Pass
Bellcore GR-78-CORE	
Electromigration	Pass

All information is for reference only.
Not to be used as incoming product specifications.

Residue Removal

The flux in **CW-501** is formulated for use in a no-clean assembly process. If cosmetics or the end-use application requires removal of the post reflow residue, standard rosin-based residue removal techniques can be utilized. This includes, but is not limited to, spray in air, spray, vapor degreasing, or ultrasonic type cleaning processes.

Storage

CW-501 has a shelf life of 3 years when stored in a dry, non-corrosive environment such as a low humidity dry cabinet. Direct sunlight, excessive humidity, and storage near heat sources should be avoided.

	Warranted	Practical*
Tin-Lead Alloys	3 years from DOM	Indefinite
Lead-Free Alloys	3 years from DOM	Indefinite
>85% High-Lead	2 years from DOM	Indefinite

*When stored at less than 40°C and less than 80% RH

Technical Support

Indium Corporation's internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Materials Science as it applies to the electronics and semiconductor sectors, Technical Support Engineers provide expert advice in solder properties, alloy compatibility and selection of solder preforms, wire, ribbon, and paste. Indium Corporation's Technical Support Engineers provide rapid response to all technical inquiries.

Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>

From One Engineer To Another®



PRODUCT DATA SHEET

CW-501 No-Clean Cored Wire Solder

Commonly Available Diameters and Packaging

Diameter	Spool Weight	63/37 Length	SAC305 Length
0.006" ± 0.002"*	1/4lb	2,142ft	2,445ft
0.008" ± 0.002"*	1/4lb	1,366ft	1,560ft
0.010" ± 0.002"	1/4lb	966ft	1,097ft
0.015" ± 0.002"	1/4lb	429ft	487ft
0.020" ± 0.002"	1lb	966ft	1,097ft
0.025" ± 0.002"	1lb	618ft	702ft
0.032" ± 0.002"	1lb	377ft	428ft
0.040" ± 0.002"	1lb	242ft	274ft
0.062" ± 0.002"	1lb	101ft	114ft
0.15mm ± 0.05mm*	113g	653m	745m
0.20mm ± 0.05mm*	113g	416m	476m
0.25mm ± 0.05mm	113g	294m	334m
0.38mm ± 0.05mm	113g	131m	148m
0.51mm ± 0.05mm	454g	294m	334m
0.64mm ± 0.05mm	454g	188m	214m
0.81mm ± 0.05mm	454g	115m	131m
1.02mm ± 0.05mm	454g	74m	84m
1.57mm ± 0.05mm	454g	31m	35m

* This size can only be manufactured using select Pb-free alloys.

This product data sheet is provided for general information only. It is not intended, and shall not be construed, to warrant or guarantee the performance of the products described which are sold subject exclusively to written warranties and limitations thereon included in product packaging and invoices. All Indium Corporation's products and solutions are designed to be commercially available unless specifically stated otherwise.

All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

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