

## PRODUCT DATA SHEET

# CORE 92 No-Clean

## Cored Wire Solder

### Introduction

**CORE 92 No-Clean Cored Wire Solder** is manufactured to demanding quality standards. It is an excellent complementary product for rework with NC-SMQ92J and Indium5.8LS solder pastes.

### Features

- Halogen-free
- Optimized for use in both SnPb and Pb-free processes
- Excellent wetting
- Low smoking

### Product Description

Spool Weight	500g or 1lb
Flux Percentage	1.6–2.2% by weight
Available Alloys	Per J-STD-006 Variation C 63Sn/37Pb 62Sn/36Pb/2Ag 96.5Sn/3.0Ag/0.5Cu

### Wire Diameters

CORE 92 No-Clean Cored Wire Solder Length per Spool			
Wire Diameter	Sn62	Sn63	96.5Sn/3.0Ag/0.5Cu
.010" ± .002" (.254mm ± .051mm)	4,695ft (1,431m)	4,691ft (1,429.8m)	1,996ft (608m)
.015" ± .002" (.381mm ± .051mm)	2,087ft (636m)	2,085ft (635.5m)	2,087ft (636m)
.020" ± .002" (.508mm ± .051mm)	1,174ft (357.7m)	1,173ft (357.4m)	1,174ft (357.7m)
.032" ± .002" (.813mm ± .051mm)	459ft (139.8m)	458ft (139.6m)	459ft (139.8m)

Values are only approximate. Actual lengths will vary.

### Belcore and J-STD Tests and Results

Test	Result	Test	Result
J-STD-004-A (IPC-TM-650)		Bellcore GR-78	
Flux Type Classification	ROLO	SIR	Pass
Flux Induced Corrosion (Copper Mirror)	Pass	All information is for reference only. Not to be used as incoming product specifications.	
Presence of Halide Fluoride Spot Test	Pass		
Elemental Analysis (Br, Cl, F)	0%		
Corrosion	Pass		
SIR	Pass		

### Residue Removal

The flux in **CORE 92** 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, immersion spray, vapor degreasing, or ultrasonic type cleaning processes.

### Shelf Life

	Warranted	Practical*
Tin-Lead Alloys	10 years from DOM	Indefinite
Lead-Free Alloys	10 years from DOM	Indefinite
>85% High-Lead	2 years from DOM	Indefinite

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

Always store cored wire in a cool, dry environment. The main causes of degraded cored wire reflow performance are the buildup of a thick oxide layer on the surface of the wire, caused by prolonged exposure to higher than normal temperature and humidity conditions, or the buildup of lead carbonate on high-lead (>85%) alloy cored wire shipped or stored under very high-humidity conditions.

### 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

Please refer to the SDS document within the product shipment, or contact our local team to receive a copy.

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.

## From One Engineer To Another®

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