

Product Data Sheet

# CORE 92 No-Clean Cored Wire Solder

## Features

- Halogen-free
- Optimized for use in both Sn/Pb and Pb-Free processes
- Excellent wetting
- Low smoking

## 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.

## Product Description

|                  |  |
|------------------|--|
| Spool Weight     | 500g or 1lb.   |
| Flux Percentage  | 1.6-2.2 by weight  |
| Available Alloys | Per J-STD-006 Variation "C"<br>Sn63 Pb37<br>Sn62 Pb36 Ag02<br>Sn96.5 Ag3.0 Cu0.5 |

## Wire Diameters

| CORE 92 No-Clean Cored Wire Solder length per spool |                    |                     |                    |
|---|--------------------|---------------------|--------------------|
| Wire Diameter                                       | Sn62               | Sn63                | Sn96.5 Ag3.0 Cu0.5 |
| .010" ±.002"<br>(.254 mm) ±.051mm                   | 4695ft<br>(1431m)  | 4691ft<br>(1429.8m) | 1996ft<br>(608m)   |
| .015" ±.002"<br>(.381 mm) ±.051 mm                  | 2087ft<br>(636m)   | 2085ft<br>(635.5m)  | 2087ft<br>(636m)   |
| .020" ±.002"<br>(.508 mm) ±.051mm                   | 1174ft<br>(357.7m) | 1173ft<br>(357.4m)  | 1174ft<br>(357.7m) |
| .032" ±.002"<br>(.813 mm) ±.051 mm                  | 459ft<br>(139.8m)  | 458ft<br>(139.6m)   | 459ft<br>(139.8m)  |

Values are only **approximate**. Actual lengths will vary.

## 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.

## Storage

**CORE 92** has a shelf life of 3 years when stored in a dry, non-corrosive environment like a low humidity dry cabinet. Direct sunlight, excessive humidity and storage near heat sources should be avoided.

## Technical Support

Indium Corporation's internationally experienced engineers provide in-depth technical assistance to our customers. Thoroughly knowledgeable in all facets of Material 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.

## Material Safety Data Sheet

The MSDS for this product can be found online at <http://www.indium.com/techlibrary/msds.php>

## BELLCORE AND J-STD TESTS & RESULTS

| Test                                     | Result | Test                  | Result |
|--|--------|-----------------------|--------|
| <b>J-STD-004-A (IPC-TM-650)</b>          |        | <b>BELLCORE GR-78</b> |        |
| • Flux Type Classification               | ROLO   | • SIR                 | Pass   |
| • Flux Induced Corrosion (Copper Mirror) | Pass   |                       |        |
| • Presence of Halide Fluoride Spot Test  | Pass   |                       |        |
| • Elemental Analysis (Br, Cl, F)         | 0%     |                       |        |
| • Corrosion                              | Pass   |                       |        |
| • SIR                                    | Pass   |                       |        |

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

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.

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