

# PRODUCT DATA SHEET

# NR-10-D

## No-Clean Wave Solder Flux

### Introduction

**Wave Solder Flux NR-10-D** is a low-solids, rosin/resin-free flux. It is specially formulated to be used for wave soldering where the cleaning process has been eliminated. Any post-soldering residues are considered non-corrosive. Soldered assemblies are ATE pin-testable without cleaning.

The preferred method of application of low-solids fluxes is by ultrasonic spray. This flux can be used very effectively in a single or dual wave soldering system. Assemblies with surface-mounted components, leaded components, or a combination of both can all be soldered successfully with **NR-10-D**.

### Features

- Excellent wetting
- No unpleasant odor
- High SIR assemblies
- Meets the requirements of Bellcore Standard TR-NWT-000078, Issue 3

### Physical Properties

Test	Result
Color	Clear
Solids Content	1.5
Specific Gravity @ 60°F @ 77°F	0.796 0.791
Flash Point	54°F
Acid Value	12

*All information is for reference only.*

*Not to be used as incoming product specifications.*

### General Process Recommendations

**NR-10-D** should not require thinning when used in a closed spray fluxer system. If required, the solids content of **NR-10-D** may be maintained by the addition of 16-3000 Flux Thinner.

Process Parameter	
Preheat Temperature	80–105°C
Preheat Time	Approximately 40–60 seconds
Deposition Range	300–600 micrograms/square inch

### Packaging

- 5 gallon containers
- 55 gallon drums

### Safety and Precautions

All fluxes with low flash points should be handled with utmost care and precaution. They should be stored in a dry, well-ventilated area away from flames, sparks, and direct heat.

### 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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ASIA +65 6268 8678 • CHINA +86 (0) 512 628 34900 • EUROPE +44 (0) 1908 580400 • USA +1 315 853 4900



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