

PRODUCT DATA SHEET

FC-WS-HT-A1

Flip-Chip Flux

Introduction

FC-WS-HT-A1 is a water-washable, halide-free, sprayable liquid flux designed for Sn/Pb and Pb-free wafer level solder bump formation. It can be used in a nitrogen atmosphere.

FC-WS-HT-A1 is relatively low in viscosity to accommodate spraying and spin coating.

Features

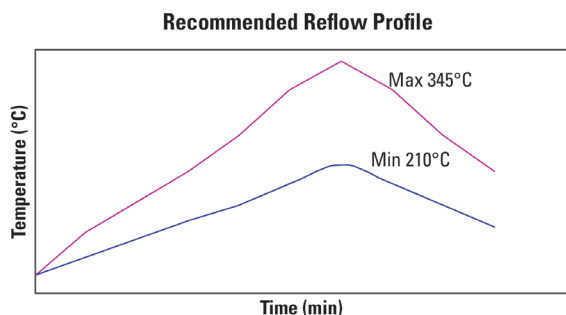
- Sprayable and dispensable
- Excellent wetting ability
- Wide reflow temperature ranges

Properties

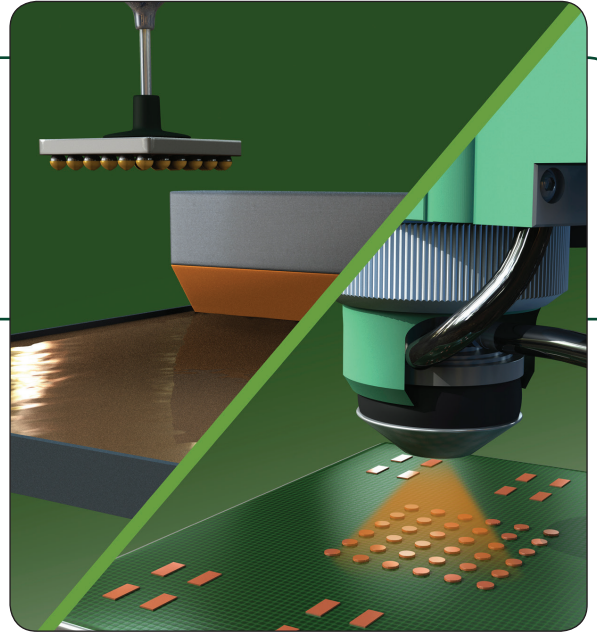
Typical Viscosity	5 centistokes (cst)
Acid Number (Typical)	11
Flash Point	23°C
Reflow Atmosphere	Nitrogen
Max Reflow Temperature	345°C
SIR	Pass
Cleaning	Deionized (DI) water @ 40psi and 55°C

Reflow

Recommended Profile:



This is the standard reflow profile for **FC-WS-HT-A1**. The time to peak should be about 3 to 5 minutes. The peak temperature should be 20°C more than the melting point of the metal. Time above liquidus should be about 40 to 70 seconds.



Packaging

- 1 US gallon (3.75 liters) bottle
- 1 US pint (0.473 liter) plastic bottle
- 1 oz. (29.57 milliliters) bottle

Storage and Handling

The shelf life of **FC-WS-HT-A1** is 6 months when stored at 0–30°C.

Flux should be allowed to reach ambient working temperature prior to use. Bottles should be labeled with date and time of opening.

Technical Support

Indium Corporation's internationally experienced Technical Support Engineers provide in-depth technical assistance to our customers and rapid response to all technical inquiries.

Safety Data Sheets

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

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Contact our engineers today: askus@indium.com

Learn more: www.indium.com

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

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