

Product Data Sheet

# Flip-Chip Flux FC-WS-HT-A1

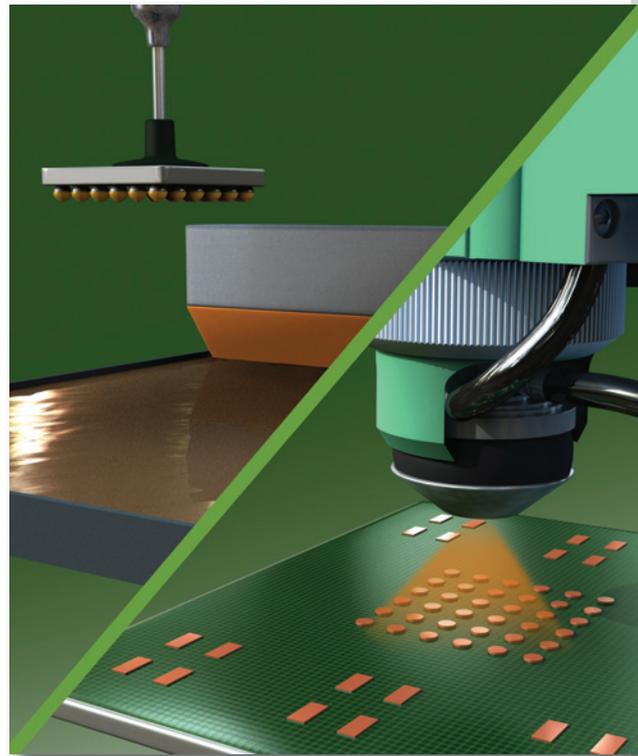
## Features

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

## 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.

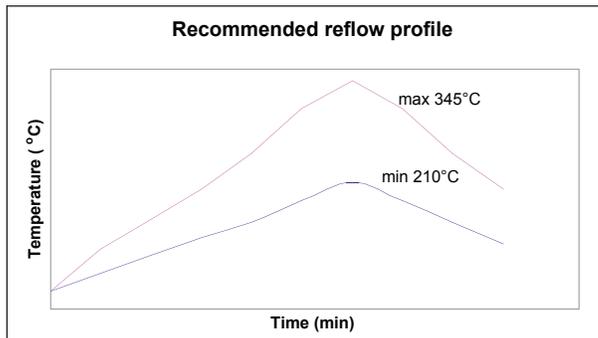
**FC-WS-HT-A1** is relatively low in viscosity to accommodate spraying and spin-coating.



## 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	De-Ionized (DI) Water @40psi and 55°C

## Reflow



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 70sec.

## 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.

## Material Safety Data Sheet

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

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

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