

PRODUCT DATA SHEET

TACFlux[®] WS-759-16-2 for Rework

Introduction

WS-759-16-2 is a halogen-free water-soluble flux designed for use in rework. **WS-759-16-2** has an activator system powerful enough to promote wetting on the most demanding substrate metallizations. **WS-759-16-2** is cleanable with just DI water only.

Features

- Halogen-free (compliant with IEC61249-2-21)
- Flux rheology applicable for a variety of rework applications
- Suitable for Pb-free applications
- Excellent solderability on a wide range of surfaces
- Cleanable with DI water only

Properties

| Property | Value | Test Method |
|-----------------------------|---|---|
| Flux Type Classification: | ORH0 | J-STD-004 |
| Typical Viscosity: | 31kcps | C&P (5rpm @25°C/5 min) |
| SIR (Ohms, after cleaning): | Pass (>10 ⁸ after 7 days @85°C & 85% RH) | J-STD-004 (IPC-TM-650: 2.6.33 IPC-B-24) |
| Typical Acid Number: | 37mg KOH/g | Titration |
| Typical Tack Strength: | 330g | J-STD-005 (IPC-TM-650:2.4.44) |
| Shelf Life: | 6 months at 0–30°C | Viscosity change / microscope examination |

Application

The amount of **WS-759-16-2** flux deposited on the substrate can be optimized by changing equipment parameters. The flux rheology can be optimized for desired application by shearing to achieve the desired viscosity.

Cleaning

WS-759-16-2 residue can be cleaned with DI water or water with an added cleaner. Ideal conditions for spray-cleaning: RT or higher for >2 minutes at >60psi.

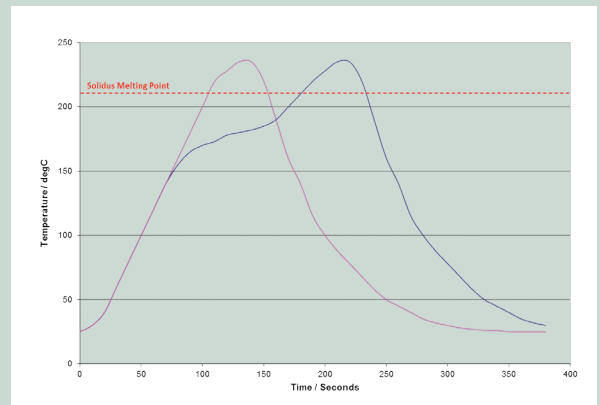
Packaging

WS-759-16-2 is available in 100g jars, 150g cartridges, and 10-30g syringes.

Reflow (if needed)

Recommended Profile:

Reflow Profiles: SAC305



A short preheat (150°-160°C) for less than 45 seconds may be used to reduce voiding. The profile should ideally be a linear ramp at 1-2°C/second up to 20-30°C above solidus temperature, with a rapid cool down afterwards, and a minimum time above liquidus of 20 seconds.

Storage

For maximum shelf life, **WS-759-16-2** cartridges should be stored tip down at 0–30°C. After removing from cold storage, **WS-759-16-2** should be allowed to stand for at least 4 hours at room temperature before using.

Technical Support

Indium Corporation sets the industry standard in providing rapid response, on-site technical support for our customers worldwide. Indium Corporation's team of Technical Support Engineers can provide expertise in all aspects of materials science and semiconductor packaging process applications.

Safety Data Sheets

The SDS for this product can be requested by contacting our technical support team.

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Form No. 99436 (A4) R0

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