

# Where To Download No Clean Solder Paste Reflow Processes

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Webinar #54 Solder Paste Technique without Stencil Surface Mount  
Prototype Assembly—Reflow Soldering with Paste and Stencil  
NPL/SMART Solder Paste Print \u0026 Reflow Problems—Causes  
\u0026 Cures—Webinar No Clean Liquid flux for RROD—YLOD—  
Reflow Solder Paste 101 : Type 3 vs Type 5~~

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how to use solder paste Pt1 - See end of video for link to Pt2 update.  
iPad mini 2 FPC connector replacement using Solder Paste - Good  
idea? Amtech Syntech solder paste for sale, watch live SMC reballing  
demonstration SDG #059 What's the best flux for soldering? A  
comparison with PCBs from JL PCB Printing Differences Between  
No Clean and Water Soluble Solder Pastes HOW TO REFLOW  
CPU SOCKET WITH ALCOHOL FLUX NOT TACKY AMTECH

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| Voltlog #338

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## No Clean Solder Paste Reflow

No-clean flux is really “ low-residue ” solder paste. Post reflow, it leaves trace amounts of noncorrosive, resinous residue on or around solder joints, varying in color from transparent to amber. The lower the solids content (resins, gelling agents and activators) in the paste, the lower the residue left on the board.

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## Why Clean, No Clean Solder Paste | No Clean Solder Flux

"No-Clean" solder paste is a misnomer. There is no such thing as a "No-Clean" solder paste, only a low residue solder paste, whose flux residue after reflow, may not have to be cleaned from the board, to ensure board functional reliability. No clean refers to a production process in

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which cleaning of the final product is deemed unnecessary.

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## Problem with 'No Clean' Solder Flux Residue

No clean solder pastes perform well in challenging environmental conditions (e.g. 90 ° F and 80% RH) where water soluble solder pastes quickly become unusable. No clean solder pastes print well through challenging aperture area ratios and give optimal reflow performance. Newer water-soluble solder pastes can perform as well as no clean solder pastes, but these newer water-soluble solder pastes are much less common.

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For sensors and camera modules used for Advanced Driver Assistance System (ADAS) and internet of things (IoT) applications, there is a demand for no-clean flux formulations in lead-free solder paste, which can reduce flux splattering during reflow.

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Clean vs. No-clean Solder Process - I-Connect007

No-Clean, Lead-Free Solder Paste Zero-Halogen, Low Voids, Fine Feature, Excellent Pin Test Performance, SAC305, SAC405, & Low Ag Capable DESCRIPTION ALPHA CVP-390 is a lead-free, Zero-halogen no-clean solder paste designed for applications where residue with excellent pin testing property and ability to pass JIS Copper Corrosion test are required.

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## No-Clean, Lead-Free Solder Paste Zero-Halogen, Low Voids ...

No-clean solder paste is more accurately described as low-residue solder paste, says Dixon. After reflow, the flux leaves a small amount of noncorrosive, resinous residue on or around the solder joints. This residue varies in color from transparent to amber, depending on the reflow temperature and the flux resin.

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## Why Clean No-Clean? - ASSEMBLY Magazine

Cleaning No-Clean Solder Paste. We are building small lots of circuit board assemblies using no-clean solder paste. We prefer to remove the no-clean residue and thus after the reflow process we are cleaning the boards by hand using a brush and no-clean cleaner. This is not

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working very well and we are getting a white residue on the boards.

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## Cleaning No-Clean Solder Paste

Looking back twenty-five years ago, the solder pastes residues had to be cleaned after reflow due to their corrosive nature: two ways of cleaning were possible, either with solvent or by using water, with or without detergent.

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## Reliability of No-clean and Water-soluble Solder Pastes

Package-on-package (PoP) assembly is most commonly carried out by printing solder paste onto the substrate and then placing the logic chip into the paste. The memory package is then dipped into a PoP solder



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paste or flux, placed on top of the logic chip, and then reflowed. This is generally a no-clean process. Product.

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Solder Paste | Solders | Products made by Indium Corporation

The majority of no-clean solder pastes are rosin or resin based, and therefore can withstand the traditional reflow profiles used on RMA based fluxes. The goal of the reflow process is to melt the powder particles in the solder paste, wet the surfaces being joined together, and solidify the solder to create a strong metallurgical bond.

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SMT Process Recommendations Defect Minimization Methods ...

In reality, no-clean solder paste leaves behind flux with low residue.

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The reflow process leaves trace amounts of resinous residue, noncorrosive in nature. Present on or around solder joints, the residue can vary in color from amber to transparent.

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Is It Necessary to Clean No-Clean Flux? | Evaluation ...

Ultra-Cleanable, No-Clean, Lead-Free, Zero-Halogen, Ultra-Fine Feature Printing & Reflow Capable Solder Paste ALPHA® OM-347 is designed as a cleanable, no-clean material. It can print and reflow with Type 4 and Type 5 powder to meet market segments requiring ultra-fine feature applications.

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ALPHA® OM 347 - Alpha - Solder paste and Bar | Soldering ...

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LOCTITE® GC 10 is a halogen free, zero halogens added, no-clean, low voiding, Pb-free solder paste specially formulated to provide added long term stability over a wide range of temperature conditions. The enhanced paste stability created through its novel formulation strategy increases both field application yields and on-line paste utilization.

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LOCTITE GC 10 – Electronics - Henkel Adhesives

For low Ag solder alloy "LS720V" For low temperature solder "145HF"  
For joint reinforcement "JPP" For chemical cleaning "NXC410"  
Dispense "NXD Series" For semiconductors. Die bonding. Print. For  
ultra-low flux residue "NRB" For water cleaning "WSG70" For  
chemical cleaning "DB375" Bump forming. Print "BPS" PoP. Transfer

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"NSV320"

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Solder paste | Lead-free solder | Products | Senju Metal ...

Product description No Clean (ROSIN-FREE) Flux - 60 ml. / 2 Oz.

KESTER 951 Alcohol based for a very clean job. leaves only a white powder looking residue that don't require cleaning. Dries as its heated coating the solder giving the perfect flux to solder ratio for a healthy long lasting bond.

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60 ml. / 2 Oz. KESTER 951 No Clean Soldering Solder Liquid ...

NR-116+ is a no-visible-residue solder paste developed for use in nitrogen reflow applications. As a resin-free / rosin-free no-clean

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product, any remaining post-process residues may be left on the PCB without degradation.

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### TECHNICAL DATA SHEET - AIM Solder

DESCRIPTION ALPHA OM-340 is a lead-free, no-clean solder paste designed for a broad range of applications. ALPHA OM-340 provides best in class low defect rate for Head in Pillow defects combined with excellent first pass yield on ICT/pin testing.

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### TECHNICAL BULLETIN ALPHA OM-340 NO-CLEAN ...

Indium Corporation ' s Pb-free solder pastes are ideal for miniaturized components and fine-pitch assembly. They provide first-

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class printing and robust reflow performance and are all designed to AVOID THE VOID ®.

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Lead-Free | Solder Paste | Solders | Products made by ...

AIM solder paste is available in no clean, water soluble, and RMA formulations with a wide variety of alloy offerings including AIM 's proven REL alloys, SAC, SN100C® and lead-based solders. AIM 's alloy and flux combinations provide high quality performance for a wide variety of SMT applications.

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