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THE INDUSTRY STANDARD IN QUALITY AND PERFORMANCE

LEADCHECK® TEST SWABS

Lead Residue on Some Surface Areas May Need More Than One Remediation Application



Part No. LCL-8

Quick, reliable and accurate, LeadCheck® Swabs can be used to detect lead in areas of the work environment. Disposable and ready to use, the entire test procedure can be performed in 30 seconds with three easy steps.

LeadCheck Swabs work on any surface, instantly turning bright pink when lead is present.

Description

LeadCheck Swabs are self-contained test units which provide a rapid and easy to use, specific test for lead on any surface.



Cross section of LeadCheck Swab Showing Patented System

There is a fiber tip at one end. Inside the barrel are two glass ampoules which contain the lead reactive materials. To activate the swab, simply squeeze under

"A" and "B" to crush the glass ampoules and shake once to mix the reagents. Use the swab immediately, as directed for the particular application.

Principal of Method

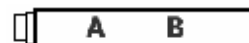
LeadCheck Swabs are based on the reactivity of lead with certain compounds capable of forming strongly colored complexes with lead. When LeadCheck Swabs are used, a pink color that is specific for lead develops within 30 seconds and is stable for hours.

Sensitivity

In defined laboratory tests, LeadCheck Swabs reproducibly detect down to 2 micrograms of lead. In field tests conducted by several, independent government agencies, LeadCheck Swabs reliably detect 0.5% lead with virtually 100% accuracy. (within 95% confidence limits)

How to Activate the Swab

Each LeadCheck Swab requires that the two glass ampoules of non-hazardous chemicals be activated.



1 CRUSH - Squeeze and crush points marked "A" and "B".



2 SHAKE AND SQUEEZE - Shake the swab twice and squeeze gently until yellow liquid comes to the tip - the swab is now activated and ready for testing.



3 RUB - While squeezing gently to keep the yellow liquid at the tip, rub the swab on the test area for 30 seconds.

Indirect Test Method

Simply wipe the area to be tested with the LeadCheck Swab for 30 seconds before activating the swab. After the area has been swabbed, break ampoules "A" then ampoules "B". Gently shake the swab to mix the chemistries. Turn the swab so that the tip is pointed downward; next gently squeeze the swab to saturate the tip. If there is lead present the tip will change color as with the direct test method.

Features

- * Easy to use
- * Easy to interpret
- * Instant results
- * Odorless
- * Long shelf life

JNJ INDUSTRIES

TECHNOtalk

2007

GET THE LEAD OUT!!

RoHS Compliance is more than just removing tin lead solder from manufacturing lines, it is removing hazardous substances from the entire work environment. If lead-free boards and materials are stored in a contaminated area, or transported on machinery or an apparatus that had been used to store or transport products where lead was used in the process, there is a risk that residues can contaminate your lead-free products. Manufacturers need to remediate and eradicate hazardous materials to provide a safer and healthier work environment for all employees working in electronics manufacturing today.

A SIMPLE 3 STEP PROCESS

Lead Remediation Task Force Kit is a simple 3 step process used to remediate lead and other hazardous metals. This process uses a combination of chelating agents and cleaning methods to lift and remove lead commonly used in electronic manufacturing and assembly. Our proprietary chemistry and wipe technology has proven to pick up and remediate lead from a variety of surfaces such as Formica (commonly found in workbenches), stainless steel, aluminum, Lexan



All Lead Remediation Task Force Kit Products Are Also Sold Separately

LEAD-FREE
Detection / Remediation/ Blade & Holders

800-554-9994

Lead Dust...the hidden danger in the work



place! Microscopic lead dust particulates pose a sig-

nificant threat to the health of humans and jeopardizes RoHS Compliance. Lead dust is unknowingly absorbed by the skin and ingested when workers are unaware that lead is present. It can also be transferred to products and areas that are designated lead-free. The good news is there are things manufacturers can do to reduce the exposure to lead in the workplace. After using JNJ's Lead Detector Kit to locate and identify surfaces contaminated with lead dust residue,



Detection = Remediation = Lead-Free



LeadCheck Swabs contain all of the materials required to test printed circuit boards, electrical leads, or any small solder connections for the presence of lead. The direct test method can be used to quickly screen larger soldered areas. The indirect method allows testing of tiny solder connections without leaving any chemical residue behind.

and other polymers, all materials found in and around SMT manufacturing lines, as well as from painted surfaces and flooring. Normal cleaning with soap and water, liquid solvents, or industrial cleaners are not effective in lifting hazardous heavy metals.

LEAD REMEDIATION KIT - LRK224		
QTY	CONTENTS	PART #
1	Isopropyl Alcohol Spray	SB6IPA/DI
1	Isopropyl Alcohol Wipes	SW100IPA/DI
1	Lead Eliminator Spray	SB6LE
1	Lead Eliminator Wipes	SW100LE
1	SelectaWipes® Rolls	401PW-9
8	LeadCheck Test Swabs	LCL-8

LEAD DETECTOR KIT...The Instant Method for Detecting the Presence of Lead



Lead Dust...the hidden danger in the workplace!

Being overlooked in electronics manufacturing and assembly, specifically Surface Mounted Technologies (SMT), is the invisible contamination left on many surfaces by the years of using tin lead solder. The hidden danger of microscopic lead dust has gone undetected until now. As solder joints harden to the typical shiny, hard surfaces that we associate with a high quality electrical or electronic connection point, microscopic dust containing lead and other metals form at the surface of the joint.

These ultra fine particulates will often become airborne and transfer to various surfaces within their proximity, surfaces such as work benches, trolley carts used to transport finished products, conveyor rails, storage racks, shelving, machinery, tools and flooring.

Testing, using our Lead Detector Kit should be performed throughout any factory or manufacturing facility where tin lead solder was used to manufacture or assemble printed circuit boards, electrical assemblies, electronic devices and machinery, etc. Whether doing spot checks on small areas or checking large surfaces, the Lead Detector Kit contains everything you need to detect the presence of lead on skin, surfaces, or in the field.

JNJ's Lead Detector Kit should be an integral part of safety training for workers in

all phases of the electronics industry to remove hazardous substances from the entire work environment.

Lead Detector wipes and swabs indicate the presence of lead quickly and easily by displaying a pink or red color when lead is present on hands and surfaces. It indicates that further hand washing or surface cleaning is necessary to completely remove lead. Lead Detector wipes/swabs can be sent to a laboratory for quantitative analysis of lead content.

Where to Test

- ✓ Work Benches
- ✓ Conveyor Rails
- ✓ Stencil Printers
- ✓ Tools
- ✓ Rework & Repair
- ✓ Inventory or Finished Goods Areas
- ✓ Storage & Shelving
- ✓ Flooring
- ✓ Pick/Place Machines
- ✓ Break/Bathrooms
- ✓ Carts & Trolleys

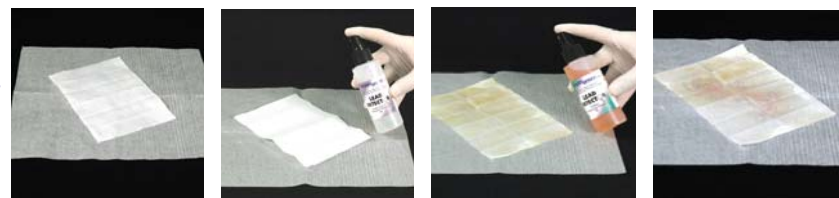


LEAD DETECTOR KIT - LDK223		
QTY	CONTENTS	PART #
2	Detecting SR Powder #1	
1	Acetic Acid, 5% Extraction Solution #2	
2	DI Water Developing Solution #3	
10	Dust Wipes	
20	Nitril Gloves	
10	Waxed Paper	
8	LeadCheck Test Swabs	LCL-8

TESTING MADE EASY...For Skin & Surfaces



Pour one vial of Detecting SR Powder #1 into Developing Solution #3 spray bottle. Shake well to mix. Use normal hand washing pressure. Use only one side of the wipe, thoroughly wipe a designated area. Wipes may be used on irregular surfaces.



Spread the wipe on a waxed sheet. Extracting Solution #2 spray the soiled area of the saturated wipe. Developing Solution #3 spray the same area of the saturated wipe. Color bloom appears within seconds.

COLOR INDICATOR
 YELLOW - lower limit
 PINK - above lower limit
 RED - highest limit

THE PRESENCE OF LEAD

The presence of lead below the lower limit of visual identification is indicated in the sample area by a yellow color. The presence of lead above the lower limit of visual identification in the sample area by a pink or red color. The color bloom appears within seconds and begins to fade quickly as the saturated wipe dries.



Lower Limit of Visual Identification: 18 µg of lead

Read the Results Immediately

GREEN FOR LEAD-FREE SQUEEGEE BLADES & HOLDERS

Many top CM's and OEM's are already setting up dedicated LEAD-FREE lines, and it is imperative to keep cross contamination out of these lines. This means that you can't use the same equipment and materials in any part of your lead free process that are being used in your tin-lead lines. Simply put, you need dedicated squeegee blades and holders for your LEAD-FREE lines to insure that no lead residue will be introduced to your LEAD-FREE manufacturing process.



Color Coded Holders!
 Green for Lead-Free...
 Gold for Lead

JNJ's Proprietary Edge

- We put a "ball radius" on our metal blades
- The ball radius protects stencils from damage due to rough or sharp edges.
- Extends the life of stencils due to minimal squeegee abrasion.
- Customer saves money by not having to replace stencils as frequently.
- Smooth edges prevent injuries to operators.
- The machined edge provides uniform shear forces at the stencil aperture.
- We run angles off both sides of the radius.
 - ◆ This helps the solder paste roll off the surface of the blade.
 - ◆ Better rolling action results in more uniform print deposits.

The Plating Makes the Difference

Electrolized™ Finish

- ⇒ Smooth Sliding Properties
- ⇒ Minimizes Stencil Wear
- ⇒ Lengthens Blade Life
- ⇒ Ductile, Moves With Blade
- ⇒ Very Hard: Rockwell rating "RC/72"
- ⇒ Guaranteed Not to Chip, Flake, or Peel!

The coating consists of a proprietary blend of chromium and other elements, making available a hard surface of Rc 70/72 Rockwell. Electrolizing offers consistent and reliable performance for today's SMT printing needs and future applications. The Electrolized surface treatment is a technology that addresses and engineer's *five* most critical needs: Hardness, Adhesion, Lubricity, Conductivity and Precision.

Why JNJ...

Achieve or exceed Original Equipment Manufacturer's (OEM) specifications with JNJ's drop-in replacement metal squeegee blades and holders. Our OEM line includes flat metal blades, adjustable angle metal blades, combination plastic and metal blades and squeegee blade holders for leading manufacturers such as MPM/Speedline, Fuji, DEK, deHaart, Panasonic, EKRA, Juki and SMTech.

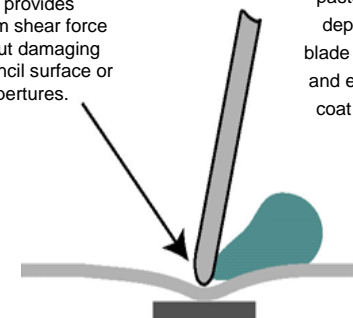
ELECTROLIZE COATING REVIEW

Coating Thickness	0005"
Hardness, Rc	70/72
Corrosion	Excellent
Wear	Excellent
Lubricity	Excellent
Conductive	Yes
Operating Temp	1600°F
Masking	As Required
Color	Satin Gray

Better Blade - Better Print Results!

Proprietary radius on the tip provides uniform shear force without damaging the stencil surface or apertures.

Electrolized™ coating helps paste release and solder deposition, protects the blade from abrasive metals, and extends blade life! We coat the entire blade, not just the edge!



The JNJ Advantage

Base Metal	Spring Stainless Steel
Customer Cost	Lower Than Most OEM's
Plating	Electrolized™ - Chromium Alloy
Blade Edge	Proprietary Ball Radius
Blade Life	Last Up To Twice As Long As OEM's