



TECHSPRAY®

- MAINTENANCE & REPAIR
- PRECISION CLEANING
- PCB ASSEMBLY
- REWORK & REPAIR



PRODUCT CATALOG & APPLICATION GUIDE

V1.0
www.techspray.com



UNLOCK SAVINGS WITH SUPERIOR COMPONENT SOURCING

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OCETA

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Alcohol Cleaners

Techspray has the broadest line of isopropyl alcohol (IPA) in the industry, ranging from aerosol, pre-saturated wipes, and bulk packaging. Two grades of IPA are available: 99.8% anhydrous (containing as little water as possible) for fast-drying cleaning and 70% IPA / 30% DI for stencil and other cleaning when slower evaporation is desired.

- Plastic safe
- Non-corrosive
- Low toxicity



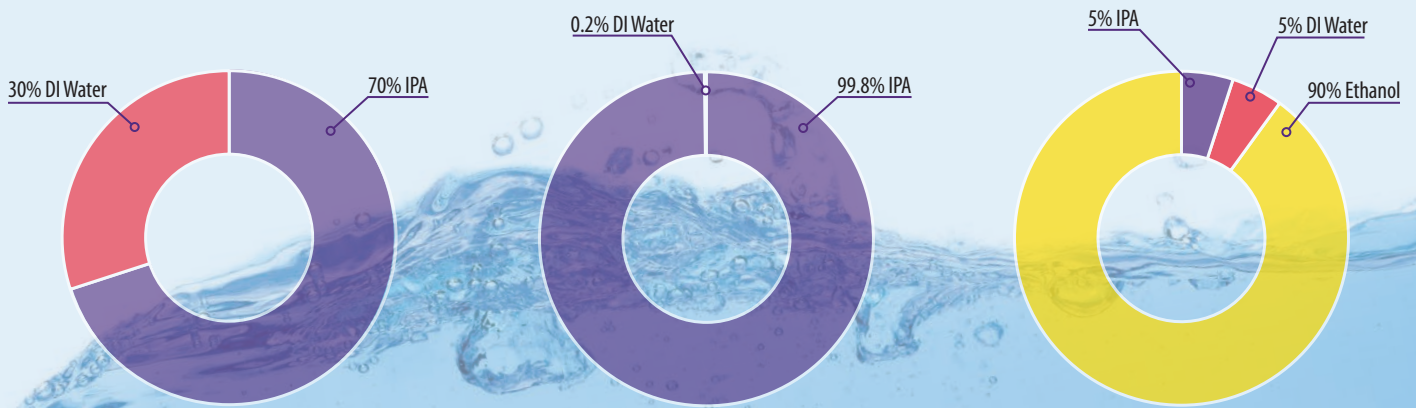
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Item #	Solvent	Wipe Material	Packaging
1610-12S	99.8+% IPA	—	12 oz aerosol
1608-P	70% IPA	—	1 pint bottle
1608-G4	70% IPA	—	1 gal container, 4/case
1608-54G	70% IPA	—	54 gal drum
1610-P	99.8+% IPA	—	1 pint bottle
1610-PT	99.8+% IPA	—	1 pint bottle w/sprayer
1610-G1	99.8+% IPA	—	1 gal container, 1/case
1610-G4	99.8+% IPA	—	1 gal container, 4/case
1610-5G	99.8+% IPA	—	5 gal container
1610-54G	99.8+% IPA	—	54 gal drum
1608-100DSP	70% IPA	Non-woven poly	Disposable tub, 100ct
1608CP-150DSP	70% IPA	Non-woven poly-cellulose	Disposable tub, 150ct
1608-100FL	70% IPA	Non-woven poly	Flip-top tub, 100ct
1608-100R	70% IPA	Non-woven poly	Refill rolls, 100ct
1608CP-150R	70% IPA	Non-woven poly-cellulose	Refill rolls, 150ct
1610-100DSP	99.8+% IPA	Non-woven poly	Disposable tub, 100ct
1610CP-150DSP	99.8+% IPA	Non-woven poly-cellulose	Disposable tub, 150ct
1610-100FL	99.8+% IPA	Non-woven poly	Flip-top tub, 100ct
1610-100R	99.8+% IPA	Non-woven poly	Refill rolls, 100ct
1610CP-150R	99.8+% IPA	Non-woven poly-cellulose	Refill rolls, 150ct
1608-50PK	70% IPA	Non-woven poly-cellulose	Individually wrapped, 50ct
1610-50PK	99.8+% IPA	Non-woven poly-cellulose	Individually wrapped, 50ct
1606-30PK	90% Ethanol	Non-woven poly-cellulose	Individually wrapped, 30ct



SOLVENT



70% Isopropyl Alcohol (IPA)
Controlled evaporation allows soak time for thick soils (e.g. solder paste).
 Effective on lipophilic viruses (e.g. herpes, vaccinia, and influenza)*.

99.8% Isopropyl Alcohol (IPA)
Faster evaporation for efficient cleaning (e.g. flux removal from PCB).

90% Ethyl Alcohol (Ethanol)
Lower odor and up to 4X faster dry time.
 Effective on lipophilic viruses (e.g. herpes, vaccinia, and influenza) and hydrophilic viruses (e.g. adenovirus, enterovirus, rhinovirus, and rotaviruses)*.

* Source: <https://www.cdc.gov/infectioncontrol/guidelines/disinfection/disinfection-methods/chemical.html>

WIPE MATERIAL

Nonwoven Poly-Cellulose

Ideal for high volume applications like SMT stencil cleaning and industrial applications.

- 5"x8" (127mm x 203mm) wipe
- More alcohol per wipe and more absorbent
- Lint-free & snag resistant
- 150 wipes per tube – 50% MORE WIPES!

Nonwoven Polyester

- 5"x8" (127mm x 203mm) wipe
- Lint-free
- 100 wipes per tub

WIPE PACKAGING



Disposable Tubs
 Low cost container can be reused, but is often discarded after use.



Flip-Top Tubs
 Reusable container with spring-loaded flip-top lid to prevent dry-out.



Refill Rolls
 Presaturated refill rolls fit both flip-top and disposable tubs to save money and reduce trash.



Individually Wrapped Wipes
 One wipe per foil pouch avoids cross-contamination and is ideal for tool boxes and field service trucks.
 Wipe size: 5.5" x 5.5" (140mm x 140mm)



Degreasers / Contact Cleaners

Techspray offers a variety of solvents, industrial degreasers, and water-based cleaner that allows you to match the right products for your cleaning needs.

Degreasers are designed to remove grease, oils, cutting fluids, corrosion inhibitors, handling soils, finger prints, and other contamination common in assembly, stamping, other types of metal fabrication, refineries, motor repair, airplane hangars, and many other applications.

Contact cleaner are engineered to remove contamination from electrical contacts, the conductive surfaces of connectors, switches and other electrical and electronic components with moving surface contacts.

Advantages of Techspray maintenance cleaners:

- Powerful cleaners - grease and oil flow right off
- Safer solvents - do not contain TCE, nPB or Perc
- Safe on the most common plastics
- Available in spray can and bulk packaging



Learn More

DEGREASER / CONTACT CLEANER SELECTION GUIDE	PROPERTIES										APPLICATIONS				
	Nonflammable	Sensitive Plastics	Evaporation Rate (1=slow, 5=fast)	VOC% (EPA) - Aerosol	VOC% (EPA) - Bulk	VOC% (CARB) - Aerosol	VOC% (CARB) - Bulk	Dielectric Strength (kV)	kB Values	Benchtop Cleaning	Ultrasonic	Vapor Degreasing			
3400 PWR-4 Maintenance Cleaner	●		5	75	95	75	95	24 kV	100	●	●	●	Strongest		
1630 G3 Maintenance Cleaner	●		5	64	-	75	-	27 kV	83	●					
1632 G3 Contact Cleaner	●		5	64	-	75	-	36 kV	78	●					
1638 G3 Universal Solvent	●		5	-	61	-	100	27 kV	78	●	●				
1635 G3 Industrial Cleaner			4	69	-	69	-	-	89	●					
2851-20S PWR4 Aviation Degreaser	●		5	65	-	-	-	12 kV	29	●					
1651 Precision-V	●	●	5	37	-	75	-	14 kV	54	●					
1620 E-LINE Maintenance Cleaner		●	4	75	-	75	-	-	87	●					
1621 E-LINE Bulk Solvent		●	4	-	100	-	100	-	-	●					
1622 E-LINE Contact Cleaner		●	4	75	-	75	-	-	8	●					
1647-16S Aviation Degreaser II	●	●	5	12.6	-	-	-	-	-	●					
1610 E-LINE IPA		●	3	75	100	75	100	-	87	●				Most Plastic-Safe	

NOTE: Test for substrate compatibility as a part of your qualification process.



Blue Shower Maintenance Cleaner

Nonflammable, powerful cleaner

Clean oil and contaminants off of metal parts, printed circuit boards, barcode instruments, switch boxes, gear relays, and electronic motor controllers.

- Nonflammable
- Powerful cleaner
- Rapid evaporation
- Non-ozone depleting
- Dielectric strength – 27.3 kV
- NSF registered K1, K2

Specifications: Meets Boeing D6 17487, Rev P

1630-16S	16 oz. (454g) aerosol
1638-G	1 gal. (3.8L) pail
1638-5G	5 gal. (19L) pail
1638-54G	54 gal. (205L) drum



Transit Equipment Degreaser

Nonflammable, strong single purpose transit degreaser

Strong removal ability of an oxidized hydraulic fluid, carbonized oils and fuels, lubricating oils and greases, and other organic residues. It is fast evaporating, quick penetrating, and ideal for cleaning heavily soiled parts.

- Nonflammable
- Powerful, long-reaching spray to clean hard-to-reach parts
- Fast evaporation
- Zero residue
- Non-ozone depleting
- Does not contain n-propyl bromide, trichloroethylene, perchloroethylene or methylene chloride
- Dielectric breakdown of 28 kV per ASTM D877
- Patent 10920181

2863-20S	20 oz (567g) aerosol
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Maintenance Cleaner

Powerful, nonflammable & cost effective cleaner that is a safer nPB replacement

Blasts away oil and contaminants off of contacts, printed circuit boards, barcode instruments, switch boxes, gear boxes, and electronic motor controllers. Grease and oil flow right off, reducing the time and materials needed to scrub off stubborn soils.

- Nonflammable
- Much safer than most common industrial solvents — TCE, nPB, perc & methylene chloride
- Powerful cleaner — Ideal for degreasing and contact cleaning
- Available in aerosol or bulk for vapor degreasing, ultrasonic and immersion cleaning
- Rapid evaporation
- Non-ozone depleting
- Cleaning applications: electronics, relays, switches & breakers, transformers, and electric motors and generators
- NSF registered K1, K2

3400-20S	20 oz. (567g) aerosol
3400-G	1 gal. (3.8L) pail
3400-5G	5 gal. (18.9L) pail
3400-54G	54 gal. (204L) drum



Effective for vapor degreasing and ultrasonic cleaning.



Industrial Maintenance Cleaner

High power, fast evaporating maintenance cleaner

Blast away heavy oils and greases off of metal parts, gear boxes, and engines.

- All-in-one electronic maintenance & contact cleaner
- Rapid evaporation
- Non-ozone depleting
- Low toxicity compared to TCE, nPB & perc
- Dielectric strength – 30.5 kV

1635-20S 20 oz. (567g) aerosol



Flux Remover & Maintenance Cleaner

Nonflammable, powerful precision cleaner

Clean off flux residues, oil, and other contamination from electronics, other sensitive surfaces.

- Nonflammable
- Low VOC
- Safe on most plastics
- High precision – residue-free
- Rapid evaporation
- Non-ozone depleting
- Dielectric strength – 14 kV

1651-16S 16 oz. (454g) aerosol



Contact Cleaner

Nonflammable, powerful contact cleaner

Clean oxidation, oil, and other contaminants from contacts, metal switches, relays, edge connectors, buss bars, and circuit breakers.

- Nonflammable
- Powerful cleaner
- Rapid evaporation
- Non-ozone depleting
- Dielectric strength – 36.2 kV
- NSF registered K1, K2

Specifications: Meets Boeing D6 17487, Rev P

1632-16S 16 oz. (454g) aerosol



Blue Shower Maintenance Cleaner

Powerful, economical aerosol cleaner

Clean oil, contaminants off of metal parts, printed circuit boards, barcode instruments, switch boxes, gear boxes, and engines.

- Powerful cleaner
- Ideal for sensitive plastics
- Low toxicity
- Non-ozone depleting
- NSF registered K1, K2

1620-10S 10 oz. (284g) aerosol
1621-G 1 gal. (3.8L) pail
1621-5G 5 gal. (18.9L) pail
1621-54G 54 gal. (204L) drum



1621-G

1620-10S



Contact Cleaner

Powerful, economical electronic contact cleaner

Clean oxidation, oil, other contaminants from contacts, metal switches, relays, edge connectors, buss bars, and circuit breakers.

- Powerful cleaner
- Ideal for sensitive plastics
- Low toxicity
- Non-ozone depleting

1622-10S 10 oz. (284g) aerosol

1622-13S 13 oz. (369g) aerosol



1622-10S

1622-13S



IPA Electronics Cleaner

99.8% IPA in convenient aerosol package

Ideal for deflusing, stencil cleaning and fiber optic connector cleaning.

- 99.8% pure IPA
- Compliant with SCAQMD rule 1171
- Plastic safe
- Low toxicity
- Non-ozone depleting

Specifications for IPA: 99.8% IPA filtered to 0.2 microns, Fed spec TT-1-735A (amend 3, notice 2) grades A&B, ASTM D770-05

1610-12S 12 oz. (340g) aerosol



Eco-Shine™ Glass & Surface Cleaner

Eco-friendly, nonflammable, streak-free glass cleaner

Cleans glass, stainless steel, chrome, mirrors, tile, plastic, ceramic and enamel and leaves a streak-free finish.

- Streak-free
- Nonflammable
- Non-ammoniated – safe on sensitive surfaces
- Low VOC, no GWP
- Non-ozone depleting
- NSF registered K1, K2

1505-QT 1 qt. (0.95L) w/ trigger sprayer

Glass Cleaner

Foaming aerosol glass and surface cleaner

- Foam clings to verticle surfaces
- Streak-free
- Safe on glass & plastics
- Nonflammable

Specifications: GM H1018, Ford Tox #142432

1625-18S 18 oz. (510g) aerosol



Label & Adhesive Remover

Fast acting, citrus-based label and adhesive remover

Citrus-based solvent safely and effectively removes labels and adhesive gums off equipment and products. Penetrates quickly and allows label to be peeled off without gummy residue.

- Removes labels and adhesive without scraping
- Penetrates rapidly
- Citrus-based solvent
- Safe on most plastics

Note: Not available in California

1613-6S 4.5 oz. (128g) aerosol



Specialized Degreasers for Aviation and Aircraft Parts

Techspray offers degreasers, presaturated wipes, and oxygen line validation fluid engineered specifically for the critical needs of aerospace and aviation MRO applications. Products are manufactured to strict quality standards and are tested to a wide variety of aviation specifications, including Boeing D6 17487, Boeing BSS7432, Airbus UK ABR9-0140 and NASA/TP-2015-218207.

For the full selection of Techspray's aerospace and aviation MRO products, check out the "Aviation Cleaning & Maintenance Selection Guide" or go to www.techspray.com/aviation.



Learn More



Aviation Degreaser

Nonflammable cleaner for aircraft parts degreasing with 10' spray

Specially engineered aviation degreaser featuring powerful removal of hydraulic fluid, fuel oils, lubricating oils and greases, and other organic residues. Features a powerful, long reaching spray to clean hard-to-reach parts from as far as 10 feet.

- Nonflammable
- Long reach 10' spray
- Fast evaporation
- Zero residue
- Non-ozone depleting
- Does not contain n-propyl bromide
- Dielectric breakdown of 13.7 kV

Specifications: Meets Airbus UK ABR9-0140 General Purpose Cleaning Solvent, FedEx CPN 0311737, Boeing D6 17487, Rev T

2851-20S 20 oz (567g) aerosol



Aviation 2000 Degreaser

High pressure cleaner to quickly flush out grease & other soils

Quickly blast away encrusted dirt, carbonized oils, grease and Skydrol from aircraft engine housings, parts and avionic components. Can be used as an electronic contact and plug cleaner for non-energized equipment. Excellent wetting action lifts and removes soils from the tightest areas.

- Trigger has a throttling action for better control
- Moderate evaporation for soak-in time
- Zero residue
- Low toxicity - does not contain n-propyl bromide
- Does not contain CFCs, HCFCs or chlorinated solvents
- Meets EU F-gas requirements
- 360° valve sprays upside-down
- Extension tube included for pin-point accuracy

Specifications: Boeing BSS7432, Douglas CSD No.1, Delta 032202077

2859-13S 13 oz. (369g) aerosol



Aviation Maintenance Cleaner

Nonflammable aviation degreaser for cleaning sensitive surfaces

Removes dirt, oil, carbon, and oxide residues from airframe, power plant and flight control systems. Plastic safe, nonflammable cleaner formulated for cleaning painted aviation components and assemblies, and minimizing repair downtime. This precision cleaner is fast drying and has good solvency for oil, handling soils, dirt, and light residues.

- Ideal for aircraft surfaces exposed to hydraulic fluids and contaminants
- Nonflammable
- Safe on most commercial resins, plastics, urethanes, and synthetic gaskets
- Frost-free
- Rapid evaporation
- Zero residue
- Low toxicity - does not contain n-propyl bromide
- Meets EU F-gas requirements
- VOC-free (per EPA) - low GWP
- Dielectric withstand voltage of 41K
- Extension tube included for pin-point accuracy

Specifications: NASA/TP-2015-218207, SAE ARP1176, Delta 032202077

2870-19S 19 oz. (539g) aerosol



Aerospace Approved Chemistries & Wiping Material

Techspray® Clean & Prep Pre-Saturated Wipes combine aerospace approved chemistries and wiping material in easy-to-use dispensing tubs. Four solvents are available for paint and composite prep: isopropyl alcohol (IPA), acetone, methyl ethyl ketone (MEK), methyl propyl ketone (MPK).

Pre-saturated nonwoven, lint-free, durable rayon material reduces solvent consumption, environmental release of volatile chemicals (e.g. VOCs), accidental spills, and worker exposure.

Consistent wipe saturation allows for greater efficiency, error-free process repeatability, and final quality compared to saturating shop rags as you go.

- Durable, lint-free wipe
- Aerospace approved wipe material & solvents
- Meets or exceeds AMS3819C and BMS15-5
- Prevent cross contamination – each wipe is new & clean
- Solvent-specific color-coded labeling
- Reusable canister reduces waste, solvent use & VOCs
- Refill rolls available to reduce cost & waste



2805-100-69-C



2810-100-69-C

Isopropyl Alcohol (IPA)

For removing dust, debris, light oils, and fingerprints for paint surface prep. Reusable canister reduces waste, solvent usage & VOC emissions while maintaining consistent saturation.

- 2805-100-69-C** 50% IPA, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/tub, 12 tubs/cs
- 2805-100-69-R** REFILL - 50% IPA, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/roll, 12 rolls/cs
- 2810-100-69-C** 99% IPA, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/tub, 12 tubs/cs
- 2810-100-69-R** REFILL - 99% IPA, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/roll, 12 rolls/cs



2811-100-69-C



2812-100-69-C



2813-100-69-C

Acetone

For removing dust, debris, oils, greases, adhesives, wet epoxy, and paint overspray in composite and paint surface prep. Very fast evaporating, powerful cleaner, and VOC exempt.

- 2811-100-69-C** 100% Acetone, 6"x9" (15.2cm x 22.9cm) rayon wipe 100 wipes/tub, 12 tubs/cs
- 2811-100-69-R** REFILL - 100% Acetone, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/roll, 12 rolls/cs

Methyl Ethyl Ketone (MEK)

For removing dust, debris, and uncured resins during surface prep and clean-up of composite, metal bond and edge seal applications. Effective on removing PR-1422, 1435 and similar tank sealants.

- 2812-100-69-C** 100% MEK, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/tub, 12 tubs/cs
- 2812-100-69-R** REFILL - 100% MEK, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/roll, 12 rolls/cs

Methyl Propyl Ketone (MPK)

For removing dust, debris, uncured epoxy in composite surface prep, and inks in printing clean-up.

- 2813-100-69-C** 100% MPK, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/tub, 12 tubs/cs
- 2813-100-69-R** REFILL - 100% MPK, 6"x9" (15.2cm x 22.9cm) rayon wipe, 100 wipes/roll, 12 rolls/cs



Flux Removers

Flux removers (defluxers) remove flux residues and other contaminants left by manufacture, rework, or repair of printed circuit boards. Residues from higher, lead-free temperatures are more baked on and harder to clean. PWR-4™, G3®, E-LINE™ and Precision-V™ flux removers have been proven very effective at removing fluxes baked on at lead-free temperatures.

Micro-components and fine pitch leads are delicate and easily damaged, so brushing and scrubbing should be avoided if possible. Techspray flux removers have a powerful spray and strong solvent that blasts off residues and cleans areas under components that a brush cannot touch.

Techspray offers traditional solvent-based cleaners and cutting edge water-based technologies marketed under the Techspray Renew™ brand.

All Techspray flux removers have the following advantages:

- Help create bright, shiny solder joints
- Improve PCB reliability
- Prevent conformal coating defects
- Prevent corrosion from contamination
- RoHS compliant



Learn More

FLUX REMOVER SELECTION GUIDE	PROPERTIES								APPLICATIONS				
	Nonflammable	Sensitive Plastics	Evaporation Rate (1=slow, 5=fast)	VOC% (EPA) - Aerosol	VOC% (EPA) - Bulk	VOC% (CARB) - Aerosol	VOC% (CARB) - Bulk	KB Values	Bentchtop Cleaning	Ultrasonic	Vapor Degreasing	Inline Defluxing System	Batch Defluxing System
3401 PWR-4 Flux Remover	●		5	73	95	70	100	100	●	●	●		
1631 G3 Flux Remover	●		5	64	-	75	-	83	●				
1634 G3 No-Clean Flux Remover	●		5	64	-	75	-	83	●				
1638 G3 Bulk Solvent	●		5	-	61	-	100	78	●	●			
1651 Precision-V	●	●	5	37	-	75	-	54	●				
1621 E-LINE Flux Remover		●	4	75	-	75	-	87	●				
1610 E-LINE IPA		●	3	75	100	75	100	-	●				
1520 Eco-dFluxer SMT200	●	●	1	-	22	-	52	-		+		●	●

NOTE: Test for substrate compatibility as a part of your qualification process.

+ Rinse required.

Solvent Defluxers



Flux Remover

Strong, fast-acting flux remover

Remove flux residues, other contaminants left by manufacture, rework, or repair of printed circuit boards.

- Nonflammable
- Powerful cleaner
- Proven effective for lead-free processes
- Residue-free
- Rapid evaporation
- Non-ozone depleting

Specifications: Meets Boeing D6 17487, Rev P

1631-16S	16 oz. (454g) aerosol
1631-16SB	16 oz. (454g) aerosol w/brush attachment
1638-G	1 gal. (3.8L) pail
1638-5G	5 gal (19L) pail
1638-54G	54 gal. (205L) drum



1631-16SB



1631-16S



1638-G



Brush attachment available for extra agitation. Nozzle also fits common brush cleaning fixtures.



Flux Remover

Powerful, nonflammable and cost effective cleaner

Cleans away flux residues and other contaminants in vapor cleaning and ultrasonic application. Easily removes residues from high temperature lead free soldering operations, no-clean fluxes and all handling soils.

- Nonflammable
- Much safer than most common industrial solvents — TCE, nPB, perc & methylene chloride
- Powerful cleaner - Effective on R, RMA & no-clean fluxes
- Effective for vapor degreasing, ultrasonic and immersion cleaning
- Residue-free
- Rapid evaporation
- Non-ozone depleting

3401-G	1 gal. (3.8L) pail
3401-5G	5 gal. (18.9L) pail
3401-54G	54 gal. (204L) drum



3401-G

3401-5G



No-Clean Flux Remover

Strong, fast-acting no-clean flux remover

Remove no-clean flux, white residues left by manufacture, rework, or repair of printed circuit boards.

- Nonflammable
- Ideal for no-clean fluxes
- Proven effective for lead-free processes
- Residue-free
- Rapid evaporation
- Non-ozone depleting

Specifications: Meets Boeing D6 17487, Rev P

1634-12S	12 oz. (340g) aerosol
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Video Guide to Flux Removers

Check out our step-by-step guide to the best practices for cleaning electronics



Watch Now



PRECISION V

Flux Remover & Maintenance Cleaner

Nonflammable, powerful precision cleaner

Formulated to reduce VOCs within your facility. Ideal for aviation and other applications where strict VOC caps apply (based on EPA VOC exemptions).

- Nonflammable
- Low VOC
- Residue-free
- Rapid evaporation
- Non-ozone depleting
- Safe on most plastics

1651-165 16 oz. (454g) aerosol



1651-165

ELINE

IPA Electronics Cleaner

99.8% IPA in convenient aerosol package

Ideal for defluxing, stencil cleaning and fiber optic connector cleaning.

- 99.8% pure IPA
- Compliant with SCAQMD rule 1171
- Plastic safe
- Low toxicity
- Residue-free
- Non-ozone depleting

Specifications for IPA: 99.8% IPA filtered to 0.2 microns, Fed spec TT-1-735A (amend 3, notice 2) grades A&B, ASTM D770-05

1610-12S 12 oz. (340g) aerosol



ELINE

Flux Remover

Powerful, economical flux remover

Hydrocarbon-based defluxer formulated to be powerful, yet very economical. Eliminates brushing and scrubbing, saving time and materials.

- Powerful cleaner
- Proven effective for lead-free processes
- Residue-free
- Non-ozone depleting
- Ideal for sensitive plastics

Specifications: GM H1013; Ford Tox #142431, USDA: NSF registered K-2 aerosol and bulk.

1621-10S 10 oz. (283g) aerosol

1621-10SB 10 oz. (283g) aerosol w/brush attachment

1621-G 1 gal. (3.8L) can

1621-5G 5 gal (19L) pail

1621-54G 54 gal (205L) drum



1621-G

1621-10S

1621-10SB

1621-5G

Water-Based Defluxers

Eco-dFluxer SMT200

Water-based Inline & Batch Flux Removers

Superior metals compatibility, preventing oxidation and leaving shiny solder joints. Eco-friendly formula reduces shipping and disposal costs. Effective with reduced concentration even on the toughest no-clean, R, RMA, OA and new halide-free fluxes.

Eco-dFluxer cleaners are water-based, environmentally friendly and designed to work in both inline and batch cleaning equipment. They are optimal combinations of solvents and saponifiers that lower surface tension for penetration under low stand-offs, and powerful cleaning action to remove all flux residues.

High compatibility with common PCB metals and plastics. Eco-dFluxer cleaners are highly filterable with long bath life.

High performance cleaning gives you brilliant solder joints and allows you to increase dilution, increase line speeds, reduce waste water, decrease cost per board, and most importantly... eliminate field failures due to ionic contamination!

- High performance cleaning
- Nonflammable
- Low VOC, zero GWP
- Also used for pallet cleaning in batch systems

1520-G 1 gal. (3.8L) bottle
1520-54G 54 gal. (205L) drum

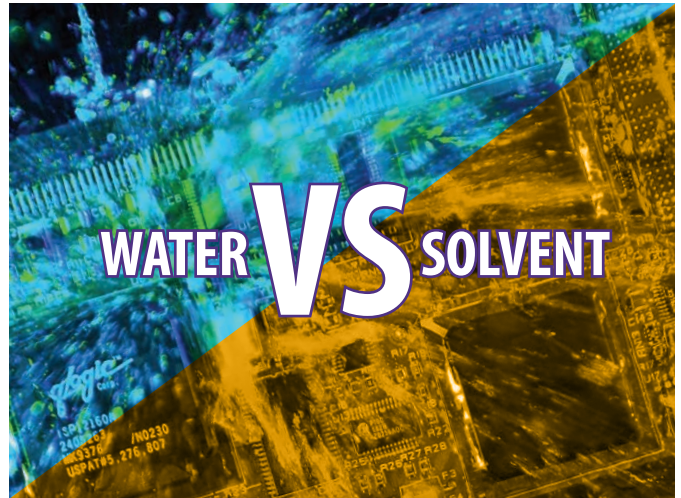
Defoamer DF1

Defoaming Agent for Inline & Batch Cleaners

Reduce foaming as cleaner becomes loaded to extend bath life. Add directly to sump at 1 to 4 fl oz. (30-120ml) per 100 gallons (379L). Dilute in spray bottle to 15% with DI water to eliminate foaming issue on the spot.

- Effective at all processing temperatures
- Extends bath life
- Silicone & particulate free
- Nonflammable

1555-P 1 pt. (473ml) container



Comparison of Water-based Cleaners vs. Solvents



Learn More

Check out our article that explains when to use water-based cleaners, and when solvent cleaners are your best option.



Vapor Degreaser Solvents

Techspray offers a wide variety of vapor degreaser formulas engineered to meet challenging requirements like cleanliness specifications, difficult-to-clean soils, solvent-sensitive materials, and restrictive regulations.

All Techspray solvents have azeotropic properties that allow them to remain stable as they are cycled in a vapor degreaser. They are not reactive or corrosive to metals commonly found in the construction of vapor degreasers.

PWR-4™ solvents are designed to replace nPB, TCE and perc, matching and surpassing cleaning performance without the safety concerns.

Precision-V™ vapor degreaser solvents are ideal replacements for AK-225 based cleaners, which were phased out due to the ozone depletion restrictions of the Montreal Protocol.



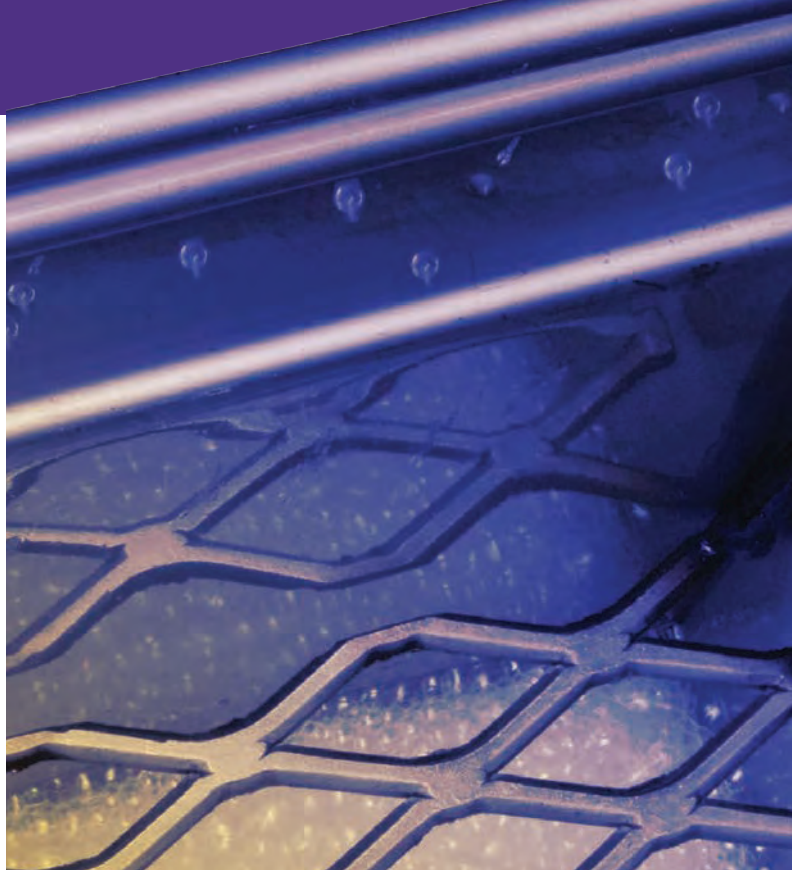
Learn More



For full product descriptions:

PWR-4 Maintenance Cleaner pg. 5

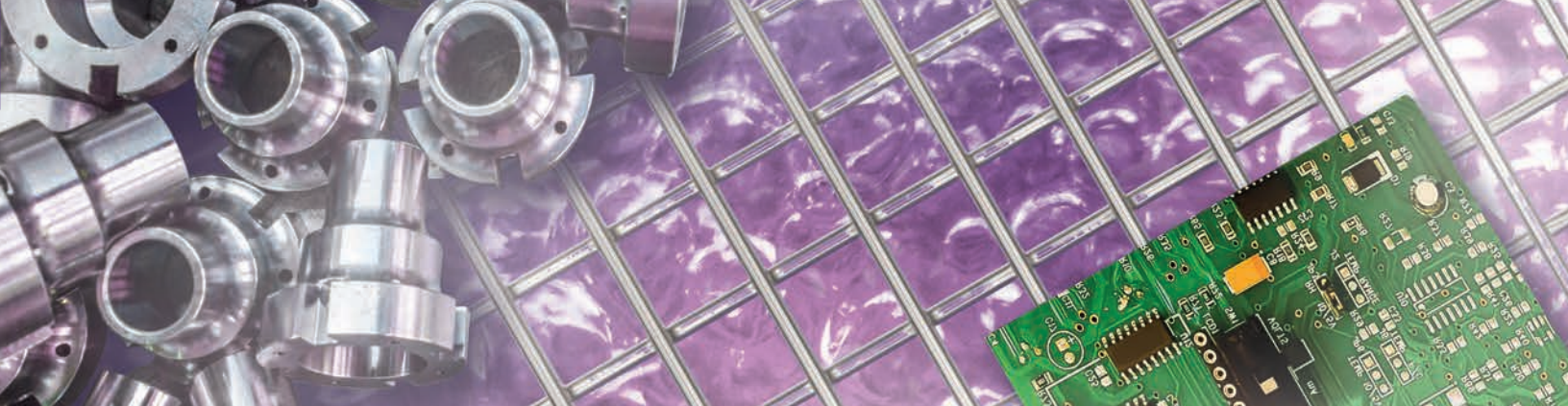
PWR-4 Flux Remover pg. 11



Vapor Degreaser Selection Guide

Part #	Product Name	Base Material	kB value	Boiling Point (°F/°C)	EPA VOC (wt %)	CARB VOC (wt %)	SCAQMD VOC (g/l)	GWP	Degreasing	Defluxing	Plastic-Safe	Cleaning Performance
3400	PWR4 Maint Clnr	HFE	100	118/48	95	100	1206	ND	●			Strongest
3401	PWR4 Flux Remvr	HFE	100	118/48	95	100	1206	ND		●		
1656	VC-1600	HFC	100	106/41	67	100	863	264	●	●	⊗	Most Plastic-Safe
1686	ME-1500	HFE	58	104/40	69	83	874	43	●	●	⊗	
1654	VC-1200	HFC	62	94/34	41	100	552	684	●		⊗	
1655	VC-1500	HFC	56	90/32	43	100	562	663		●	⊗	

* Test First



VC-1200 Vapor Degreaser Parts Cleaner

Powerful, high precision solvent

- Nonflammable
- Ozone-safe replacement for AK-225
- Effective on cutting fluids, heavy greases & oils

1654-5G 5 gal. (19L) pail
1654-54G 54 gal. (205L) drum



VC-1600 Vapor Degreaser Solvent

Powerful solvent for degreasing & defluxing

- Nonflammable
- Ozone-safe replacement for AK-225
- Effective on fluxes, heavy greases, oils & waxy corrosion inhibitors
- Safe on most plastics

1656-5G 5 gal. (19L) pail
1656-54G 54 gal. (205L) drum



VC-1500 Vapor Degreaser Flux Remover

Powerful, high precision defluxer

- Nonflammable
- Ozone-safe replacement for AK-225
- Effective on rosin, RMA, no-clean & lead-free fluxes

1655-G 1 gal. (3.8L) pail
1655-5G 5 gal. (19L) pail
1655-54G 54 gal. (205L) drum



ME-1500 Vapor Degreaser Solvent

Powerful, high precision solvent for degreasing & defluxing

- Nonflammable
- Ozone-safe replacement for AK-225
- Effective on fluxes, heavy greases, oils & waxy corrosion inhibitors
- Safe on most plastics
- Low global warming potential (GWP)

1686-54G 54 gal. (205L) drum



FREE WEBINAR:
**Replacing n-Propyl Bromide (nPB):
What You DON'T Know CAN Hurt You**

There are effective and safer alternatives to nPB. Check out this webinar recording that provides an in-depth look at this crucial topic.



Watch Now



TECHSPRAY
RENEW™

HIGH PERFORMANCE ECO-FRIENDLY CLEANERS

Stencil Cleaners



Learn More

Eco-Stencil UM

Manual & Under Stencil Cleaner

- Quickly clean paste or uncured adhesive
- Safe for stencils, tools, misprinted boards
- Nonflammable
- Low VOC, zero GWP

Applications:

- Manual stencil tool, work surface, and squeegee cleaning
- Automatic underside wipe stencil cleaning
- Batch ultrasonic cleaning
- Removes unsoldered leaded & lead-free solder pastes
- Cleans off uncured adhesives

Specification: Compliant with Speedline / ITW EAE compatibility criteria for Accelta, Momentum and MPM 125 printers.

1570-100DSP 100 count pre-saturated wipes, 6"x8" (15cm x 20cm)

1570-QT 1qt. (0.95L) w/ trigger sprayer

Eco-Stencil RF

Rinse-Free Batch Stencil Cleaner

- Nonflammable
- Rinse-free
- Drop in replacement for IPA
- Effective at ambient temperature
- Low VOC, zero GWP
- Highly concentrated - 20% dilution

1571-G 1 gal. (3.8L) bottle



1570-QT

1570-100DSP



1571-G

SMT Equipment Maintenance

Eco-Oven

Reflow Oven, Wave Finger & Pallet Cleaner

- Quickly clean flux residue from oven & wave fingers
- Safe on warm ovens
- Nonflammable
- Low VOC, zero GWP

Applications:

- Removal of baked-on flux residues from SMT oven and wave equipment
- Maintenance cleaning for heat exchange systems (NOTE: rinse thoroughly from aluminum and copper)
- Finger cleaning in wave solder equipment
- Remove accumulated flux from wave solder pallets

1573-QT 1 qt. (0.95L) w/ trigger sprayer



1573-QT

Wave finger cleaning

ESD Products



LICRON CRYSTAL

Permanent ESD Coating

- Rugged static dissipative coating
- Surface resistivity of 10^6 To 10^9 ohms
- Operating temperature range – up to 302°F (155°C)
- Humidity independent
- Superior adhesion to variety of surfaces: glass, plastic, etc.
- Non-ozone depleting

- 1756-8S** 8 oz. (226g) aerosol (coats up to 200ft²)
1756-G 1 gal. (3.8L) jug (coats up to 1600ft²)
1756-54G 54 gal. (204L) drum



1756-8S



Zero Charge Anti-Stat Coating

Anti-static coating for fabrics & flexible surfaces

- All-purpose static control
- For plastics, fabrics, and carpet
- Fast drying
- Nonflammable

- 1726-QT** 1 qt. (.95L) bottle with trigger sprayer



1733-QT



Zero Charge Mat & Tabletop Cleaner

Safe, effective cleaner for ESD mats

- Rejuvenates ESD-safe mats
- Will not dry out surfaces
- Leaves no insulative residue
- Nonflammable
- No ammonia
- Non-corrosive

- 1733-QT** 1 qt. (.95L) bottle with trigger sprayer
1733-G 1 gal. (3.8L) bottle



1743-QT



1743-50PK

Zero Charge Hand Lotion

Non-contaminating hand lotion for ESD sensitive environments

- Improves wrist and heel strap contact
- Does not contain silicone or lanolin
- Non-contaminating — does not interfere with soldering
- Non-greasy

- 1702-8FP** 8 fl. oz. (237ml) bottle with finger pump
1702-G 1 gal. (3.8L) bottle



1702-8FP

Zero Charge Screen & Keyboard Cleaner

Cleans surfaces and leaves behind dissipative residue

- Cleans plastic & glass
- Leaves ESD-safe coating
- Leaves no insulative residue
- Non-corrosive

- 1743-50PK** 50 pre-saturated wipes in packets
1743-QT 1 qt. (.95L) bottle w/trigger sprayer

Zero Charge® ESD-Safe Floor Coating

ESD-safe floor coating

- Resistivity between 10^6 To 10^{10}
- Effective in low humidity
- High gloss polymer
- Zinc free
- Slip resistant

- 1720-G** 1 gal. (3.8L) bottle (coats @1,200 ft²)



Temporary Solder Masks

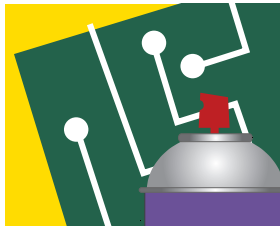
Techspray's WonderMASK is the industry leading temporary solder mask brand because of quality and versatility. Depending on the product, mask can be peeled off manually, or washed off in a batch or inline system.

All Techspray WonderMASK products have the following advantages:

- Can be cured in pre-heat
- Withstands lead-free soldering temperatures up to 640°F (343°C) in wave soldering process
- RoHS compliant

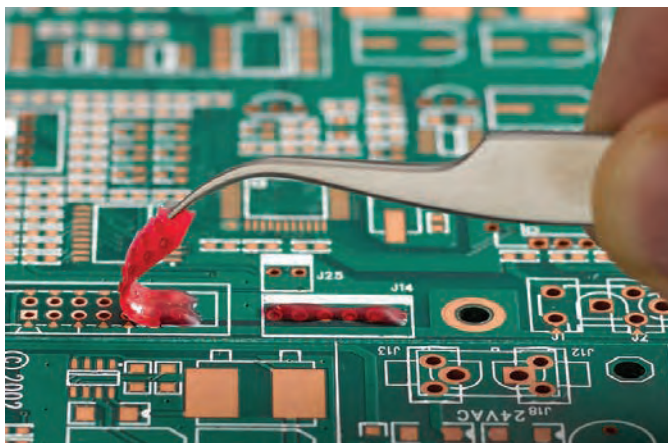


Learn More

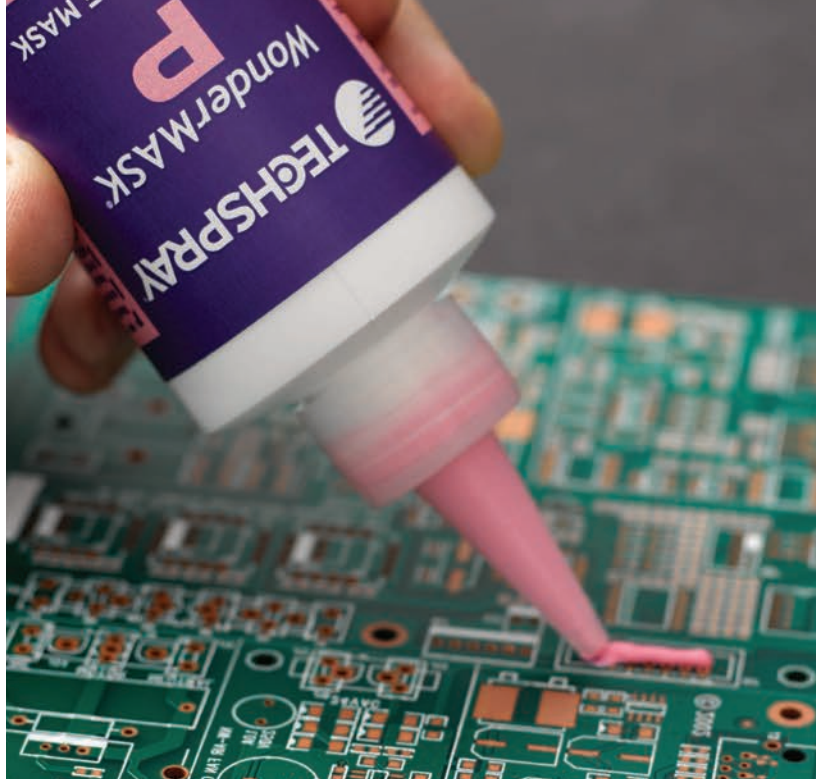


Peelable Masks

Used with solvent cleaning and no-clean processes.



Cure indicator prevents breakage. Translucent bright pink means it is ready to be removed.



WonderMASK P

Non-ammoniated, low odor peelable mask

Techspray's original ammonia-free synthetic latex peelable solder mask.

- Easily peelable
- Low odor
- Cure indicator – darkens as it cures
- Compatible with gold and copper leads
- Non-corrosive
- Nonflammable

Specifications: MIL-STD-2000 paragraph 5.3.18 parts a,b, and d. Ford Tox #039772.

- 2211-85Q** 8 fl. oz. (237mL) squeeze bottle
- 2211-G** 1 gal. (3.8L) bottle
- 2211-5G** 5 gal. (19L) pail
- 2211-54G** 54 gal. (205L) drum



2211-85Q

TEMPORARY SOLDER MASK SELECTION GUIDE

PRODUCT	APPLICATION	VISCOSITY	SUGGESTED THICKNESS	THINNER	CURE TIME	REMOVAL
PEELABLE						
2211 WonderMASK P	Template, Hand, Pneumatic, Robotic	28,000 – 32,000 cps	20 – 30 mils	D.I. Water	1 hr. Ambient 30 min. @65° C 20 min. @82° C	Peelable
2222 WonderMASK PX	Hand Applied	9,000 – 16,000 cps	15 mils	D.I. Water	15 min. Ambient	Peelable
TC-533 Techform	Hand Applied	9,000 – 15,000 cps	15 mils	D.I. Water	1 hr. min. Ambient 30 min. @65° C	Peelable
WATER-SOLUBLE						
2204 WonderMASK WSOL	Hand, Pneumatic	11,500 – 15,500 cps	5 – 15 mils	Methanol	30 min. @65° C	Soluble in Water 49° C or higher
2205 WonderMASK W	Hand Applied	8,000 – 12,000 cps	10 – 15 mils	D.I. Water	30 min. @80° C 1-2 hrs. Ambient	Soluble in Water 49° C or higher
2206 WonderMASK W	Pneumatic, Robotic	6,050 – 6,450 cps	10 – 15 mils	D.I. Water	1-2 hrs. Ambient 30 min. @80° C	Soluble in Water 49° C or higher

WonderMASK PX

Natural latex peelable solder mask with fastest cure time.

Natural latex temporary solder mask that is specially formulated to cure in half the time of other masks.

WonderMASK PX cures over its entire surface area, including where it adheres to the PCB. This allows it to be peeled quickly and easily when other masks are still sticky at the bottom. Even the thickest bead of mask cures completely.

Specifications: Meets MIL-STD-2000 paragraph 5.3.18 parts a, b, and d.

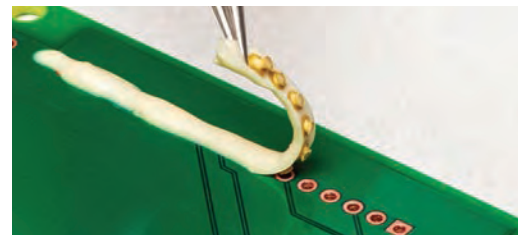
- Fastest full cure
- Easily peelable
- Highest strength to avoid breakage
- Nonflammable

2222-8SQ 8 fl. oz. (237ml) squeeze bottle

2222-G 1 gal. (3.8L) bottle



2222-8SQ



WonderMASK PX peels after 15 min.



Typical mask after 15 min.



Washable Masks

Used with aqueous cleaning processes.



2204-G

2204-8SQ

WonderMASK W

Nonflammable, water-washable

Quick drying water-washable mask. Quickly and easily removed with in-line and batch cleaning systems.

- Water washable
- Non-corrosive
- Low odor
- Nonflammable

Note: do not use in closed-loop wash systems.

Specifications: Meets MIL-STD-2000 paragraph 5.3.18 parts a,b, and d. (2206) HP 8500-4214

Hand Applications:

2205-8SQ 8 fl. oz. (237mL) squeeze bottle

2205-G 1 gal. (3.8L) bottle

Robotic & Pneumatic Applications:

2206-G 1 gal. (3.8L) bottle



2205-8SQ

WonderMASK WSOL

Water-washable mask, safe on ion beds and filters

Ideal water-washable mask for closed-loop systems. Quickly and easily removed with in-line and batch cleaning system.

- 100% Water-soluble
- Safe on ion beds & filters in closed-loop cleaning systems
- Non-corrosive
- Low odor

2204-8SQ 8 fl. oz. (237mL) squeeze bottle

2204-G 1 gal. (3.8L) bottle

CONFORMAL COATING

Techspray offers a variety of coating formulas to match field and engineering requirements. Specifications generally depend on the type of protection needed: e.g. thermal, moisture, and static resistance (see reference chart on the next page).

Application method considerations:

Dip – High volume method to fully coat boards. Thickness of final coating is controlled by viscosity and withdrawal speed from the pot.

Selective spray system – Computer controlled selective spray systems, eliminate the need for masking. Higher viscosity than full coverage sprayer is generally needed (70-200 cps) to create precise edge definition and prevent splattering.

Manual Application – Aerosol and brushing are generally used for small production runs, rework and repair. If using for rework, the aerosol needs to be compatible with the original coating.



CONFORMAL COATING SELECTION GUIDE

	2127 Fine-L-Kote SRV	2127-950 Fine-L-Kote SRV 950	2102 Fine-L-Kote SR	2103 Fine-L-Kote AR	2104 Fine-L-Kote UR	2106 Fine-L-Kote HT	2108 Turbo-Coat
Product Benefits	Moisture & Vibration Resistant	Moisture & Vibration Resistant	Moisture & Vibration Resistant	Economical	Durable & Chemically Resistant	High Operating Temperature	Economical With Fastest Cure
Selective Spray System	●	●	●	○	●	●	●
Atomized Spray System	●	●	●	○	●	●	●
Dip	●	●	●	○	●	●	●
Aerosol Available	NO	NO	YES	YES	YES	YES	YES
Thermal Resistant	●	●	●	●	●	●	●
Moisture /Fungus Resistant	●	●	●	●	●	●	●
Chemical Resistant	●	●	●	○	●	●	○
Vibration Resistant	●	●	●	●	○	●	●
Ease of Rework	●	●	●	●	●	●	●
Tack Free Time (minutes)	10	10	60	15	15	45	3
Accelerated Cure Time/Temp	2 Step 30 Min.@ 32°C 45 Min.@ 93°C	2 Step 30 Min.@ 32°C 45 Min.@ 93°C	2 Step 30 Min.@ 32°C 45 Min.@ 93°C	2 Step 20 Min.@ 120°F 30 Min.@ 180°F	2 Step 20 Min.@ 49°C 30 Min.@ 82°C	1 Step 15 Min.@ 49°C	1 Step 20 Min.@ 65°C
Ambient Cure Time	24 Hrs.	24 Hrs.	72 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	<15 Hrs.
IPC-CC-830 Qualified			YES		YES	YES	YES
UL 94 Rated	V-0	V-0	V-0		V-0	V-0	V-0
Solids Content (% by weight)	48%	85%	Aerosol 11% Bulk 14%	Aerosol 6.1%	Aerosol 7% Bulk 20%	Aerosol 16% Bulk 25%	Aerosol 7% Bulk 17%
Viscosity (centipoise)	Bulk 82	Bulk 950	Aerosol 4-10 Bulk 4-10	Aerosol 22	Aerosol 12-22 Bulk 10-20	Aerosol 15-25 Bulk 15-25	Aerosol 10-20 Bulk 15-25
UV Indicator	YES	YES	YES	YES	YES	YES	YES
Operating Temp Range	-65° to 200° C	-65° to 200° C	-65° to 200° C	-65° to 125° C	-30° to 121° C	-40° to 350° C	-65° to 125° C
Dielectric Strength	720 kV/Mil	720 kV/Mil	1.1 kV/Mil	2086 kV	380 V/Mil	560 V/Mil	1 kV/Mil
Dielectric Constant	1.017	1.017	2.66	3.1	3.8	2.5	
Insulation Resistance (ohms)	>1.4 x 10 ¹²	>1.4 x 10 ¹²	6.87 x 10 ¹⁵	4 x 10 ¹³	1.78 x 10 ¹⁶	1.33 x 10 ¹⁶	4.89 x 10 ¹⁶
VOC	Bulk 13%	Bulk 4%	Aerosol 46% Bulk 58%	Aerosol 29%	Aerosol 52% Bulk 54%	Aerosol 51% Bulk 79%	Aerosol 33% Bulk 64%

Key: ● = Best ● = Acceptable ○ = Not applicable / Not recommended

FINE-L-KOTE™ SR

Silicone coating that's ideal for moisture and vibration protection

- UL recognized
- Thermal resistance — to 392°F (200°C)
- Dielectric strength — 1100 volts/mil
- Moisture resistant
- Chemically resistant
- Vibration resistant — flexible

Specifications: Meets or exceeds IPC-CC-830B. UL94 V-0 rated. Passes the laboratory tests of MIL-I-46058C. However, it is not qualified on QPL-46058.

Standard Viscosity — 4-10 CPS

Coverage (1 mil dry film):

1 aerosol can - 16 ft² (1.5 M²)

1 gal. liquid - 224 ft² (20.8 M²)

2102-12S 12 oz. (355ml) aerosol

2102-P 1 pt. (473mL) can

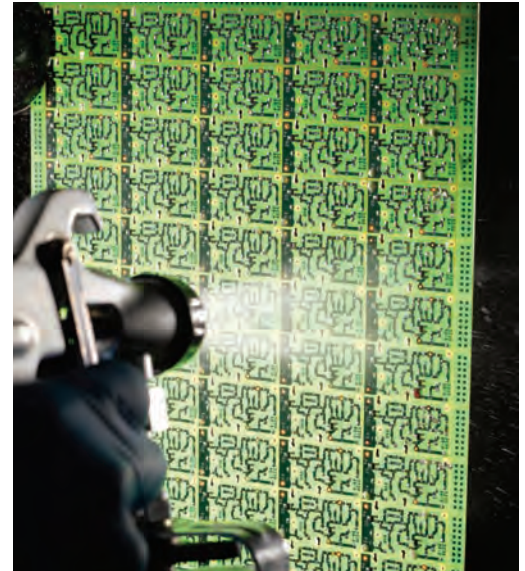
2102-G 1 gal. (3.8L) can

High Viscosity — 60-90 CPS

2102-GHV 1 gal. (3.8L) pail



2102-12S



Application with manual spray gun.

	2109 Turbo-Coat HV	2125 Fine-L-Kote LED2
	Economical With Fastest Cure	Optically Clear
	●	●
	●	●
	●	●
	USE 2108-12S	NO
	●	●
	●	●
	○	●
	●	●
	●	●
	9	10
	1 Step 55 Min. @ 55°C	2 Step 30 Min. @ 32°C 45 Min. @ 93°C
	<15 Hrs	24 Hrs.
	YES	YES
	V-0	V-0
	Bulk 24%	Bulk 48%
	Bulk 55-60	Bulk 66-76
	YES	NO
	-65° to 125° C	-65° to 200° C
	1 kV/Mil	1 kV/Mil
		720 kV/Mil
	4.89 x 10 ¹⁶	>1.4 x 10 ¹²
	Bulk 7%	Bulk 13%

FINE-L-KOTE™ SRV

Low VOC coating that's ideal for corrosion, moisture, thermal and vibration protection

- Low VOC
- High gloss, superior transparency
- Thermal resistance - 392°F (200°C)
- Dielectric strength - 720 volts/mil
- Moisture and chemically resistant
- Vibration resistant & flexible
- Low toxicity — HAPs free
- Meets IPC-CC-830B
- UL 94 V-0 flammability rating
- Meets MIL-STD 810G & MS941-04 salt spray tests

Specifications: Meets or exceeds IPC-CC-830B. UL94 V-0 rated. Passes the laboratory tests of MIL-I-46058C. However, it is not qualified on QPL-46058.

Fine-L-Kote SRV – Standard Viscosity

2127-P 1 pint / 0.47L liquid

2127-G 1 gallon / 3.8L liquid

2127-5G 5 gallon / 18.9L liquid

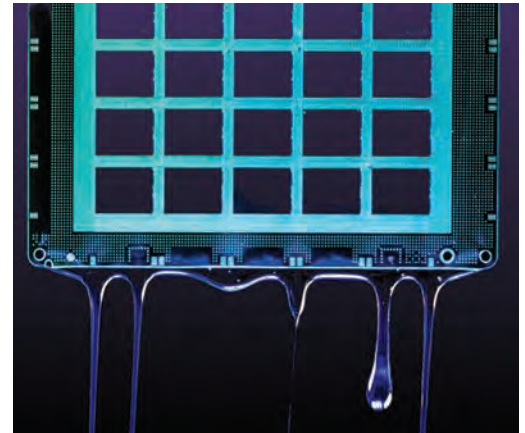
2127-54G 54 gallon / 204L liquid

Fine-L-Kote SRV 950 – High Viscosity

2127-G950 1 gallon / 3.8L liquid

2127-5G950 5 gallon / 18.9L liquid

2127-54G950 54 gallon / 204L liquid



Dip coating.



Selective spray system application.

FINE-L-KOTE™ HT

Silicone coating engineered for superior thermal and moisture resistance

- Designed for high temperature environments
- Fast-drying silicone – 1-step process
- Thermal resistance – to 662°F (350°C)
- Dielectric strength – 560 volts/mil
- Moisture resistant
- Vibration resistant – flexible

Specifications: Meets or exceeds IPC-CC-830B. UL94 V-0 rated. Passes the laboratory tests of MIL-I-46058C. However, it is not qualified on QPL-46058.

Coverage (1 mil dry film):

1 aerosol can - 20 ft² (1.9 M²)

1 gal. liquid - 880 ft² (81.8 M²)

2106-12S 12 oz. (355ml) aerosol

2106-G 1 gal. (3.8L) can



2106-12S

FINE-L-KOTE™ UR

Urethane Conformal Coating

- Thermal resistance – to 248°F (120°C)
- Dielectric strength – 380 volts/mil
- Moisture resistant
- Chemically resistant
- Abrasion resistant
- UL94 V-0 – nonflammable final coat

Specifications: Meets or exceeds IPC-CC-830B. UL94 V-0 rated. Passes the laboratory tests of MIL-I-46058C. However, it is not qualified on QPL-46058.

Coverage (1 mil dry film):

1 aerosol can - 10 ft² (0.9 M²)

1 gal. liquid - 320 ft² (29.7 M²)

2104-12S 12 oz. (355ml) aerosol

2104-G 1 gal. (3.8L) can

2104-5G 5 gal. (19L) pail



2104-12S

FINE-L-KOTE™ LED2

Silicone conformal coatings designed to coat over LEDs

Coat directly over LEDs without the time and expense of masking. Optical clarity prevents light from diffusing, scattering, or changing wavelength. Fine-L-Kote LED provides maximum protection from extreme temperatures on the flexible and rigid PCBs found in LED displays.

- Fully transparent - will not block or change light intensity or wavelength
- Protects against adverse environments
- Flexibility prevents cracking
- Resists moisture, salt, fungus and corrosive vapors from severe environments
- Withstands high heat from PCB and operating environment
- Thick film build
- High gloss -- repels dirt & dust
- Low VOC

Coverage (1 mil dry film):

1 gal liquid - 723 ft² (67.2 m²)

2125-P 1 pt. / 473 mL can

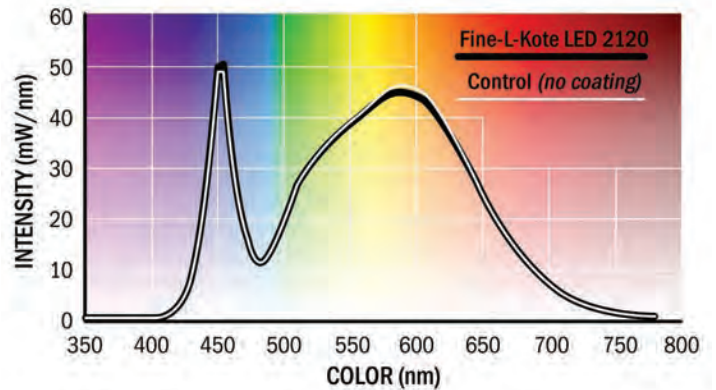
2125-G 1 gal / 3.7 L liquid

2125-5G 5 gal / 18.5 L liquid



2125-5G

2125-G



3rd party testing by Intertek, standards IESNA LM-79-2008 and ANSI NEMA ANSLG C78.377:2015

CASE STUDY:

Fine-L-Kote LED2 Improves Reliability of Grow Lights without Affecting Light Properties



Read the Case Study

FINE-L-KOTE™ AR

Acrylic Conformal Coating

- Fast & easy rework & repair
- Rigid, hard coating
- UV indicator for black light QC inspection

Coverage (1 mil dry film): 1 aerosol can - 12 ft² (1.1 M²)

2103-12S 12 oz. (355ml) aerosol



2103-12S

TURBO-COAT™

Acrylic Conformal Coating

- Fastest cure – dry to touch in 3 minutes!
- Low toxicity
- No toluene, xylene or MEK
- UL94 V-0 rated – nonflammable final coat
- Fast & easy rework & repair
- UV indicator for black light QC inspection

Specifications: Meets or exceeds IPC-CC-830B. UL94 V-0 rated. Passes the laboratory tests of MIL-I-46058C. However, it is not qualified on QPL-46058.

Coverage (1 mil dry film):

1 aerosol can - 14 ft² (1.3 M²)

1 gal. liquid - 272 ft² (25.3 M²)

2108-12S 12 oz. (355ml) aerosol

2108-P 1 pt. (473mL) can

2108-G 1 gal. (3.8L) can

2108-5G 5 gal. (19L) pail



2108-12S

TURBO-COAT HV™

Acrylic Conformal Coating

- Designed for selective sprayers
- Low toxicity
- No toluene, xylene or MEK
- Dry to touch in under 10 minutes!
- UL94 V-0 – nonflammable final coat

Specifications: Meets or exceeds IPC-CC-830B. UL94 V-0 rated. Passes the laboratory tests of MIL-I-46058C. However, it is not qualified on QPL-46058.

Coverage (1 mil dry film):

1 gal. liquid - 391 ft² (36.3 M²)

2109-P 1 pt. (473mL) can

2109-G 1 gal. (3.8L) can

2109-5G 5 gal. (19L) pail



2109-5G

2109-G

Turbo-Coat Thinner

Conformal coating thinner for Turbo-Coat

Turbo-Coat Thinner is available to reduce the viscosity to fit ideal process parameters.

- Compatible with all Turbo-Coat coatings
- MEK, toluene & xylene free
- Low toxicity
- Also used as stripper & nozzle cleaner

2110-P 1 pt. (473mL) can



FINE-L-KOTE™

Conformal Coating Remover XT

Safer Conformal Coating Stripper

- Strong cleaner for dissolving most common types of coatings
- Removes silicones, acrylics, urethanes and one component epoxies
- Safer solvent – no MEK, xylene and other highly toxic solvents
- Non-corrosive
- Controlled evaporation for longer soak time

2130-G 1 gal. (3.8L) can

2130-54G 54 gal. (204L) drum



2130-G

Conformal Coating Remover

Coating stripper for acrylic, silicone and urethane

Quickly and precisely removes most conformal coatings including acrylic, urethane, and silicone.

- Fast stripping action
- Non-corrosive
- Rapid evaporation

2510-N 10 ml pen

2510-P 1 pt. (473mL) can



2510-N



2510-P



View the Coating Removal How-To Video

Dusters

Techspray dusters blow away dust, microscopic contaminants, lint, metallic oxide deposits and other soils that can cause heat build-up or shorts in sensitive electronics. They are completely portable, ultra-pure, and free of moisture, oil, and other contaminants.

- Moisture free
- Non-ozone depleting
- Zero residue
- VOC exempt
- Safe on plastics



Nonflammable Duster

Nonflammable duster

- Nonflammable
- Safest choice for energized equipment
- Velocity – 11.3 M/s

1671-10S 10 oz. (283g) aerosol

1671-15S 15 oz. (425g) aerosol

CAN1671-10S 10 oz. (283g) aerosol
Canada compliant packaging

CAN1671-15S 15 oz. (425g) aerosol
Canada compliant packaging



1671-10S

1671-15S

Vortex™ High Velocity Duster

High velocity, nonflammable duster

- Most powerful blast
- Nonflammable
- Safest choice for energized equipment
- Vortex 360° sprays upside-down
- Velocity –14.6 m/s

1697-8S Vortex 360° 8 oz. (227g) aerosol

1697-10S 10 oz. (283g) aerosol



1697-8S

1697-10S

Economy Duster

Economical duster

- Best value – 30% more volume
- Lower global warming potential
- Velocity – 11.4 m/s

1673-10S 10 oz. (283g) aerosol

Note: not for use on powered electrical equipment, on hot surfaces, and around open flames or sparks.



1673-10S



Renew-Duster

Eco-friendly, nonflammable duster

- Ultra-low GWP of <1
- Nonflammable, low global warming HFO-1234ze
- Velocity – 12 m/s

1580-10S 10 oz. (283g) aerosol



DUSTER SELECTION GUIDE

	Spray Power	Nonflammable	360° Spray	Contents	GWP*	Use On Live Circuits
1697-10S Vortex Duster	Best	Yes	No	HFC-134a	1300	Yes
1697-8S Vortex 360° Duster	Best	Yes	Yes	HFC-134a	1300	Yes
1671 Duster	Good	Yes	No	HFC-134a	1300	Yes
1673 Economy Duster	Good	No	No	HFC-152a	140	No
1580 Renew-Duster	Good	Yes	No	HFO-1234ze	<1	Yes

* Global warming potential (GWP) is calculated based on a 100 year time horizon. Carbon dioxide has a GWP of 1.

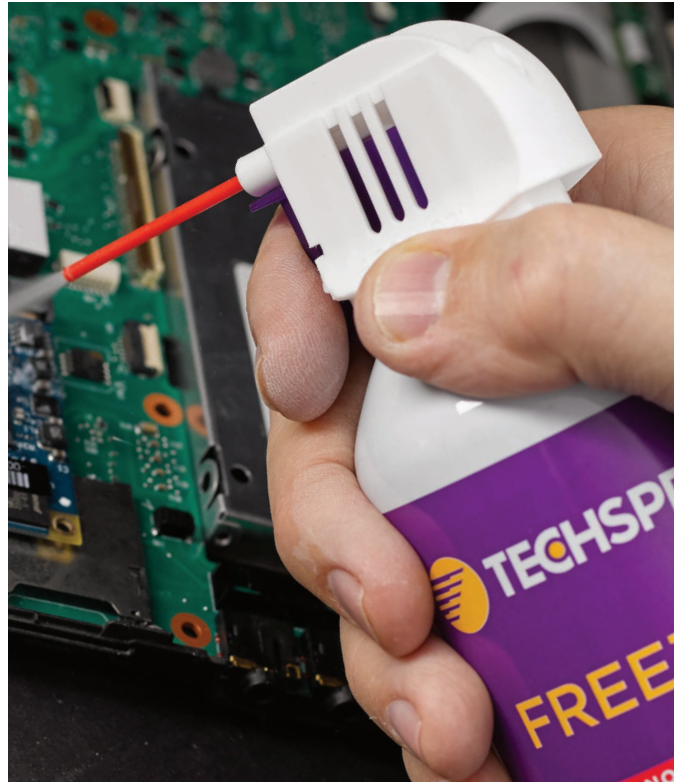
Freeze Sprays

Freeze sprays blast fast evaporating liquid that super-chills isolated areas. Used as a troubleshooting aid for intermittently faulting capacitors, resistors, semiconductors, and other defective components. They also increase visibility of cold solder joints, cracks in printed circuit boards and oxidized junctions.

- Nonflammable
- Safe on plastics
- Zero residue
- Moisture free
- Non-ozone depleting
- VOC exempt



Learn More



Freeze Spray

- Chills down to -60°F (-51°C)
- Nonflammable
- Safe for energized equipment

1672-10S 10 oz. (283g) aerosol
1672-15S 15 oz. (425g) aerosol



Anti-Static Freeze Spray

ESD-Safe diagnostic freeze spray

Diagnostic freeze spray for static sensitive assemblies. Contains additive that avoids static build-up, critical when working with ESD-sensitive components.

- Avoids static build-up
- Prevents latent failures
- Chills down to -60°F (-51°C)
- Nonflammable
- No frost buildup

1747-10S 10 oz. (283g) aerosol



Eco-Freezer

Eco-friendly freeze spray

Eco-Freezer is formulated with new HFO-1234ze propellant, with a fraction of the global warming potential (GWP) of HFC-134a based freeze sprays. HFO-1234ze has a GWP of <1, compared to HFC-134a with GWP of 1300. Eco-Freezer can be a drop-in replacement when GWP needs to be lowered.

- Chills down to -49°F (-45°C)
- Ultra-low GWP of <1
- Nonflammable

1583-10S 10 oz. (283g) aerosol



Desoldering Braid

Desoldering braid (wick) is pre-fluxed copper braid that is used to remove solder, which allows components to be replaced and excess solder to be removed.

Techspray wick is available in static dissipative bobbins (except where indicated) for static sensitive environments.

Techspray No-Clean wick is coated with proprietary flux that only leaves a slight clear residue, which does not cause service issues. Cleaning after using Techspray No-Clean wick is strictly optional.

Specifications: Meets or Exceeds MIL-F-14256; NASA NHB 5300, 4 (34-1); NASA NPC 200-4; NASA SP5002; 1821:HP 8690-0588; 1823: HP 8690-0577; IPC Standard-J-STD-004



DESOLDERING BRAID SELECTION CHART					
#1	#2	#3	#4	#5	#6
White	Yellow	Green	Blue	Brown	Red
.035" (0.9mm)	.055" (1.4mm)	.075" (1.9mm)	.098" (2.5mm)	.130" (3.3mm)	.193" (4.9mm)

Wick in selection chart shown actual size.



Pro-Wick® Rosin — ESD-Safe Bobbin

For the fastest wicking action, rosin flux coated braid is ideal for high volume PCB production/repair environments.

		Size/Color	5'	10'	25'	100'	500'
	1808	#1 White	1808-5F	1808-10F	—	1808-100F	—
	1809	#2 Yellow	1809-5F	1809-10F	1809-25F	1802-100F*	1802-500F*
	1810	#3 Green	1810-5F	1810-10F	1810-25F	1810-100F	1803-500F*
	1811	#4 Blue	1811-5F	1811-10F	1811-25F	1811-100F	1804-500F*
	1812	#5 Brown	1812-5F	—	—	—	—
	1813	#6 Red	1813-5F	—	—	1806-100F*	—

* Not packaged in ESD-safe bobbins

No-Clean Wick — ESD-Safe Bobbin

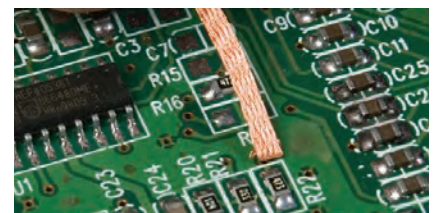
The cleanest No-Clean braid in the industry. The proprietary flux formula is specially designed to avoid catastrophic and latent PCB failures caused by ionic flux residue.

		Size/Color	5'	10'	25'	50'	100'
	1820	#1 White	1820-5F	1820-10F	—	1820-50F	1814-100F*
	1821	#2 Yellow	1821-5F	1821-10F	1821-25F	1821-50F	1815-100F*
	1822	#3 Green	1822-5F	1822-10F	—	1822-50F	1822-100F
	1823	#4 Blue	1823-5F	1823-10F	1823-25F	—	1823-100F
	1824	#5 Brown	1824-5F	—	1824-25F	—	—
	1825	#6 Red	1825-5F	—	—	—	—

Unfluxed Wick — ESD-Safe Bobbin

For customers who use water-soluble flux, or their own flux for aqueous processes.

		Size/Color	5'	10'
	1830	#1 White	—	1830-10F
	1831	#2 Yellow	—	1831-10F
	1832	#3 Green	1832-5F	—
	1833	#4 Blue	—	1833-10F



Match braid width to contact area

Rework & Repair Pens

TraceTech™

Flux Remover Pen

Spot cleaning for PCB rework and repair

- Safe on plastics
- Rapid evaporation
- Pen tip allows controlled application

2506-N Single-pack of 11.5 ml pen



Learn More



TraceTech™

No-Clean Flux Dispensing Pen

No-clean flux applicator pen for PCB rework and repair

- Excellent wetting
- Works with lead and lead-free solders
- Boosts wetting for lead-free wire solder
- No cleaning necessary
- Halide free

2507-N Single-pack of 11.5 ml pen

2507-N100 144 pack of 11.5 ml pens, 12 boxes of 12



TraceTech™

Conductive Pen

Silver ink pen for repairing electronic traces

- Repairs traces
- Makes smooth jumpers

2505-N Single-pack of 4.9 ml pen



TraceTech™

Overcoat Pen

Resist repair pen for PCB rework and repair

- Repairs solder resist
- Green to match resist
- Prevents shorting and arcing

2509-GN Single-pack of 5 ml pen



TraceTech™

Conformal Coating Remover Pen

Spot coating remover in applicator pen for PCB rework and repair

- Fast stripping action
- Non-corrosive
- Rapid evaporation

2510-N 11 ml pen

2510-P 1 pt. (0.47L) can



Thermal Paste

Silicone Heat Sink Compound

Heat sink compound for electrical applications

- Thermal conductivity – 0.70 W/m-K
- Functional temperature Range -67°F to 401°F (-55°C to 205°C)
- Easy application
- Will not harden and crack

1977-DP 4 oz. (118ml) squeeze tube



Learn More

Silicone-Free Heat Sink Compound

Heat-sink for electronics, avoid silicone contamination

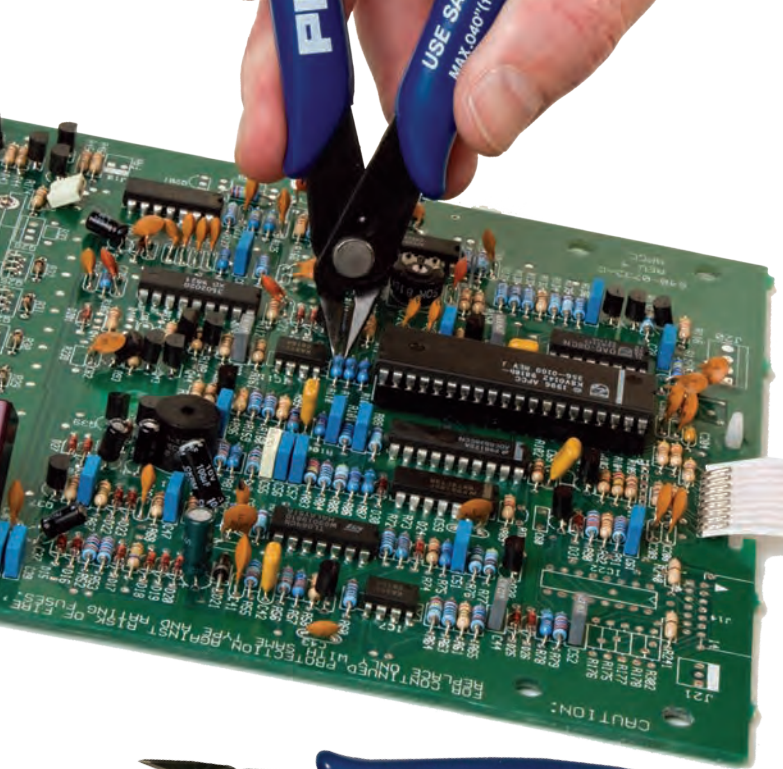
- Thermal conductivity – 0.92 W/m-K
- Functional temperature range -40°F to 392°F (-40°C to 200°C)
- Avoid solder defects due to silicone contamination
- Easy application
- Will not separate
- Will not harden and crack

1978-DP 4 oz. (118ml) squeeze tube

1978-1 1 lb. (454g) jar



1978-1



Our best-selling cutter!

PLATOSHEAR

General Purpose Lead Cutter

Precise, reliable cutting action at an economical price. Thin profile handle and light weight design is ideal for smaller hands.

- Cut up to 18 AWG copper wire (.04"/1mm)
- Economical, disposable cutter
- Thin blade profile for trimming in tight areas
- Ergonomic handle design
- Spring-back action

170 1 cutter, 10/case

175 1 cutter w/safety guard, 10/case

Optional Safety Guard

175 cutter comes with a lead catcher, which holds onto a trimmed lead until the shear is opened. This prevents leads from flying off, which can cause eye injury or contaminate the assembly.



Safety Guard

PLATO®

Lead Cutters

Plato cutters give you the precision of a high-end tool, but at a disposable cutter price. Assemblers love the effortless shearing action, comfort, and safety. Plato cutters use the shear cutting method, which requires 50% less operator effort and extends cutting life.

The thin profile design is perfect for hard-to-reach areas in electronic assembly. Handles are cushioned for comfort all day, and automatically spring back to their original position after each use.



Learn More



Lead Cutter

Ergonomic, ESD Safe Lead Cutter

The 170LX is a remarkable advancement in cutter design. Carefully crafted precision cutting blades combine seamlessly with curved, palm shaped handles to deliver effortless lead cutting and user comfort.

- Comfortable, ergonomic design
- ESD safe to protect sensitive components
- Responsive sprinback action for quick, comfortable cutting of multiple leads
- Thin profile design to reach tight areas in electronics assembly

170LX 1 cutter, 10/case



Wipes

Techspray offers a large array of wipes for a variety of applications, including cleanroom, PCB rework, polishing, and maintenance. A large number of different materials are available to meet each unique requirement.

- Cleanroom Wipers:** Meet the particulate count and extractables for Class 10 / ISO Class 4 and Class 100 / ISO Class 5 cleanrooms.

CLASS
10

CLASS
100
- Maintenance Wipers:** Lower cost, high quality wipers for heavy-duty cleaning.
- Microfiber Wipers:** Polishing wipes that are ideal for screen and display cleaning, with or without a cleaner.
- SMT Roll Wipers:** DEK and MPM understencil roll wipes to fit the most common printers.



TECHCLEAN® WIPES SELECTION GUIDE

Key: ● = Best ● = Acceptable ○ = Not applicable / Not recommended

	Properties					Application							
	Cleanroom	Material	Construction	Absorbency	Strength	Electronics	ESD-Sensitive	LCD Cleaning	Stencil Cleaning	Lab	Optics	Industrial	Office
2350 Wiper	100 / ISO 5	Poly / Cellulose	Non-woven	●	●	●	●	○	●	●	○	●	●
2351/2352 Absorbwipe	100 / ISO 5	Polyester	Non-woven	○	●	●	○	○	○	●	●	○	○
2355 Purewipe	100 / ISO 5	Polyester	Knit	●	●	●	○	●	●	●	○	●	●
2357 Twill Wipe	n/a	Cotton	Woven	●	●	○	○	○	○	●	○	●	●
2359/2364/2365 Maintenance Wipe	n/a	Poly / Cellulose	Non-woven	●	●	●	●	○	●	●	○	●	●
2362 Antistatic Wipe	10 / ISO 4	Polyester	Knit	●	●	●	●	●	○	●	○	○	○
2363 Microfiber Wipe	n/a	Poly / Nylon	Knit	●	●	●	○	●	○	○	●	○	●
2366/2367 Roll Wipes	n/a	Poly / Cellulose	Non-woven	●	●	○	○	○	●	○	○	○	○

Note: To qualify for your cleanroom requirements, please refer to www.techspray.com for full data sheets.



BEST SELLER!

TechClean Wiper CLASS 100

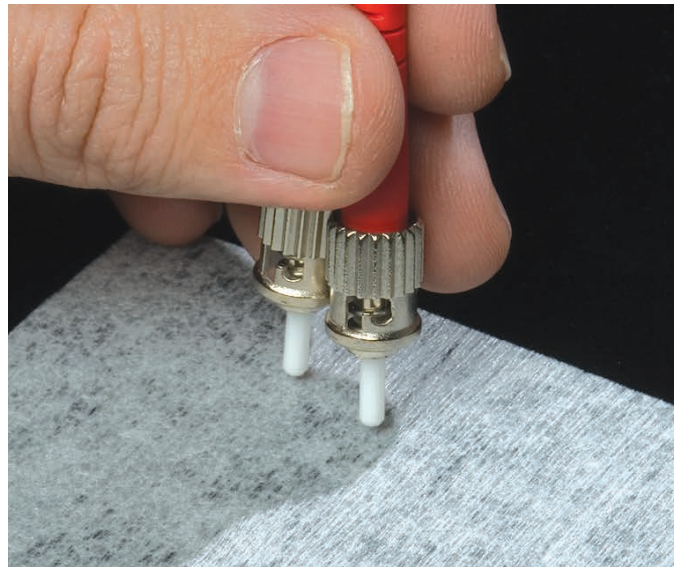
General Purpose Wipe

Hydroentangled cellulose/polyester wipe with high absorbency and extra low particulate count and no chemical extractables.

- Class 100 cleanroom qualified
- High absorbency
- Very low particulate count

Specifications: Exceeds U.S. Air Force requirements for surface contamination, HP 9300-1618

2350-100 100 - 8"x10" (20cm x 25cm) c-fold wipes, double-bagged



BEST SELLER!

TechClean Purwipe™ CLASS 100

Low-Linting Poly Wipe

100% polyester wipe is a strong, low-linting wipe that is ideal for SMT stencil cleaning and PCB rework. Tear resistant to allow cleaning around leads without fraying.

- Class 100 cleanroom qualified
- Very low particulate count
- Tear resistant

2355-100 100 - 9"x9" (23cm x 23cm) flat wipes, double-bagged



TechClean Maintenance Wipes

Hydroentangled cellulose/polyester wipe with high absorbency. Economical, but very high quality wipes are ideal for production and maintenance applications.

- High absorbency
- Economical

2359-300 300 - 9"x9" (23cm x 23cm) flat wipes

Economy Grade

2364-50 50 - 12"x 12" (30.5cm x 30.5cm) dry wipes

2365-300 300 - 9"x 9" (23cm x 23cm) dry wipes



TechClean Absorbwipe™ CLASS 100

For Sensitive Surfaces

Very soft and absorbent hydroentangled polyester wipe for cleaning optical equipment, fiber optics, and other sensitive surfaces.

- Non-abrasive
- Extremely soft
- Highly absorbent

2351-100 100 - 4"x4" (10cm x 10cm) flat wipes, double-bagged

2352-100 100 - 9"x9" (23cm x 23cm) flat wipes, double-bagged



Anti-Static Wipe CLASS 10

Polyester wipe that is interwoven with DuPont's NEGA-STAT carbon yarn. NEGA-STAT dissipates static charge, preventing static buildup and allowing dissipation. Perfect for dry wiping ESD-sensitive components and boards. Tear resistant to allow cleaning around through-hole leads without fraying.

- Anti-static — will not generate charge
- Class 10 cleanroom laundered & qualified
- Tear resistant

2362-150 150 - 9"x9" (23cm x 23cm) flat wipes

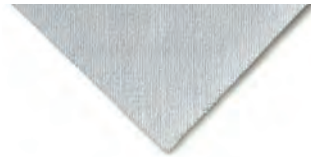


Microfiber Glass & Plastic Cleaning Wipes

Cleans and polishes glass or plastic. Ideal for removing fingerprints and light oils without the use of solvent cleaners.

- Cleans & polishes glass or plastic
- Low-linting
- Washable (avoid fabric softener)

2363-50 50 - 8" x 8" (20cm x 20cm) dry wipes w/hemmed edges, double-bagged



TechClean Twill Wipe

Tear Resistant Cotton

100% cotton twill weave designed for wiping abrasive surfaces. Tear resistant to allow cleaning around leads without fraying. Low static generation, so good for static sensitive areas.

- Tightly woven 100% cotton
- Tear resistant
- Low static generation

2357-100 100 - 6"x6" (15cm x 15cm) flat wipes, double-bagged

SMT Cleaning Wipes

Alcohol Wipes for Stencil & Surface Cleaning

Techspray offers 70% isopropyl alcohol wipes in a variety of packaging configuration, for fast convenient cleaning of solder paste, adhesives, flux and more.



Learn More

- 1608-100DSP** 100ct in disposable tub
- 1608-100F** 100ct in flip-top tub
- 1608-100R** 100ct refill
- 1608CP-150DSP** 150ct in disposable tub
- 1608CP-150R** 150ct refill



Disposable Tubs

Low cost container can be reused, but is often discarded after use.



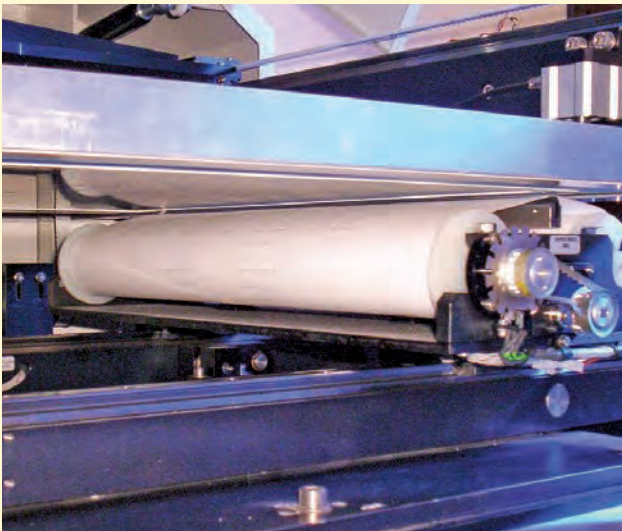
Flip-Top Tubs

Reusable container with spring-loaded flip-top lid to prevent dry-out.



Refill Rolls

Presaturated refill rolls fit both flip-top and disposable tubs to save money and reduce trash.



Roll Wipes for DEK and MPM SMT Printers

Made from low lint fabric and designed for vacuum operation.

- Maximum absorbency
- Strong both wet & dry
- Textured non-woven poly-cellulose fabric
- Low linting – prevents misprints
- Density 68 GSM



Part #	OEM Brand	Equip model	Core ID	Notch	Paper Width	Core Width	Matl Length
2366-DEK	DEK	DEK 265, #129051/GS, GSX & 288	0.75" (19mm)	1	20.3" (515mm)	20.9" (530mm)	39' (11.9 M)
2367-MPM	MPM	MPM #1485/AP & UP2000	0.75" (19mm)	0	17.5" (444mm)	18" (457mm)	39' (11.9 M)







TechSwabs

Precisely designed, manufactured and packaged to serve a wide variety of cleaning and maintenance needs. TechSwabs are manufactured in accordance with Techspray's rigid specifications, using specialized materials to ensure low particle generation.



Foam TechSwabs CLASS 100



All foam swabs are manufactured with 100 pores per inch reticulated polyurethane foam, which ensures excellent absorbency while minimizing contamination. Tips are affixed by heat seal to prevent tip loss, even while saturated with solvent. Flexible tips provide versatility and softer touch, while rigid heads allow for more aggressive cleaning.

Product	Tip Width	Attachment of Tip	Handle Length	Handle Material	50 Pack Bag	1000 Pack Bag
2302	0.44" (11.2mm)	Heat Sealed	6" (15cm)	Polypropylene	2302-50	2302-1000
 <p><i>Cotton Bud Wrapped in Foam, Rigid Head</i></p>						
2303	0.19" (4.8mm)	Heat Sealed	6" (15cm)	Polypropylene	2303-50	2303-1000
 <p><i>Rigid Head</i></p>						
2306	0.5" (13mm)	Heat Sealed	5" (13cm)	Polypropylene	2306-50	2306-1000
 <p><i>Rigid Head</i></p>						
2307	0.19" (4.8mm)	Heat Sealed	4" (10cm)	Polypropylene	2307-50	2307-1000
 <p><i>Flexible Tip</i></p>						
2309	0.125" (3.2mm)	Heat Sealed	3" (7.6cm)	Polypropylene	—	2309-1000
 <p><i>Rigid Head</i></p>						
2311	0.125" (3.2mm)	Heat Sealed	2.625" (6.7cm)	Polypropylene	—	2311-1000
 <p><i>Flexible Tip</i></p>						

Fiber Optic TechSwabs CLASS 100

All swabs shown actual size – 1:1 scale

Ideal for removing transmission disrupting contaminants in bulkhead connectors. The head conforms to the various connector shapes, cleaning the conductor bulkhead corners inside the bulkhead pocket. Tips are heat bonded, so no contaminating adhesives have been used.

Product	Tip Width	Attachment of Tip	Handle Length	Handle Material	50 Pack Bag	1000 Pack Bag
2316	0.05" (1.25mm)	Heat Sealed	6.25" (16cm)	Polypropylene	2316-50	2316-1000
 <p><i>Flexible Tip</i></p>						
2317	0.1" (2.5mm)	Heat Sealed	6.25" (16cm)	Polypropylene	2317-50	2317-1000
 <p><i>Flexible Tip</i></p>						

Cotton TechSwabs

Tightly wrapped, pre-cleaned cotton ensures the least amount of extractable contaminants. The most economical choice for high volume usage.

All swabs shown actual size – 1:1 scale

Product	Tip Width	Attachment of Tip	Handle Length	Handle Material	30 Pack Bag	100 Pack Bag	1000 Pack Bag
2300	0.1875" (4.8mm)	Wrapped	6" (15cm)	Wood	—	2300-100	2300-1000
2301	0.1875" (4.8mm)	Wrapped	6" (15cm)	Wood	—	2301-100	2301-1000
2313	0.125" (3.2mm)	Wrapped	3.25" (8.3cm)	Paper	2313-30PK	—	—



Brushes

Techspray's TechClean® brushes are made of premium grade materials. Don't be fooled by cheap imports. Bristles are securely stapled in place, eliminating loose bristles.

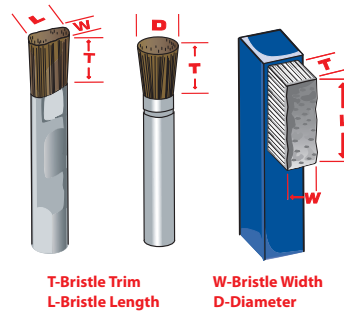
Choose the Right Bristle Material for Your Needs:

Natural — Soft, resilient and long lasting. Hog bristles are stiffer than horsehair.

Metal — For burnishing, polishing, non-sparking static dissipation and deburring. Brass is a softer bristle than stainless steel.



Learn More

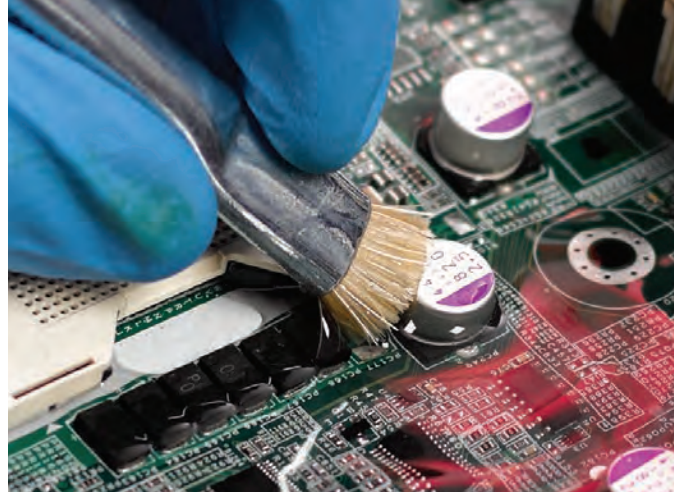


Selecting the right brush: Brushes dimensions are specified as bristle length (L), width (W), and trim (T).

General Cleaning Brushes







A wide variety of sizes and bristle material for general maintenance cleaning. All handles are made of strong, static neutral wood.

FRONT VIEW	SIDE VIEW	Product	L Bristle Length	W Bristle Width	T Bristle Trim	Bristle Material	Handle Material	Handle Length
		2020-1	1.375" (35mm)	0.25" (6.4mm)	0.44" (11mm)	Horse Hair	Wood	7.75" (19.7cm)
		2021-1	1.375" (35mm)	0.25" (6.4mm)	0.44" (11mm)	Hog Bristle	Wood	7.75" (19.7cm)
		2022	2.125" (54mm)	0.875" (22mm)	0.75" (19mm)	Hog Bristle	Wood	8.375" (21.3cm)
		2025-1	1.375" (35mm)	0.25" (6.4mm)	0.44" (11mm)	Brass .003" (0.08mm)	Wood	7.75" (19.7cm)
		2027-1	0.875" (22mm)	0.375" (9.5mm)	0.5" (12.7mm)	Hog Bristle	Wood	4.94" (12.5cm)









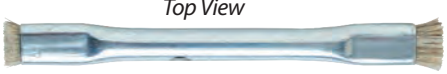



Static Sensitive Brushes

Ideal for cleaning static sensitive electronics or components. Anodized aluminum falls within the static dissipative range (10^5 to 10^{12} ohms/square per ASTM D-257). Steel bristles are conductive, and horse hair is dissipative when saturated with solvent.

FRONT VIEW	SIDE VIEW	Product	L Bristle Length	W Bristle Width	T Bristle Trim	Bristle Material	Handle Material	Handle Length
		2040-1	1.19" (30.2mm)	0.125" (3.2mm)	0.44" (11.2mm)	Horse Hair	Anodized Aluminum	6.44" (16.4cm)
		2042-1	1.19" (30.2mm)	0.375" (9.5mm)	0.44" (11.2mm)	Horse Hair	Anodized Aluminum	6.44" (16.4cm)
		2043-1	1.19" (30.2mm)	0.375" (9.5mm)	0.44" (11.2mm)	Stainless Steel .003" (0.08mm)	Anodized Aluminum	6.44" (16.4cm)

Technical Brushes

Small, precision brushes for technical cleaning and coating or adhesive application. Double-sided brushes include tapered end for tight areas.

FRONT VIEW	SIDE VIEW	Product	L Bristle Length	W Bristle Width	T Bristle Trim	Bristle Material	Handle Material	Handle Length
		2030-1	0.125" (3.2mm)	0.0625" (1.6mm)	0.125" (3.2mm)	Goat Hair	Stainless Steel	3.5" (8.9cm)
	<p>Top View</p>  <p>Side View</p>  <p>A B</p>	2031-1	0.25" (6.4mm)	0.19" (4.8mm)	A - 0.25" (6.4mm) B - 0.5" (13mm)	Horse Hair	Stainless Steel	4.5" (11.4cm)
	<p>Top View</p>  <p>Side View</p>  <p>A B</p>	2032-1	0.5" (13mm)	0.375" (9.5mm)	A - 0.19" (4.8mm) B - 0.25" (6.4mm)	Horse Hair	Zinc Plated Steel	4.5" (11.4cm)
		2033-1	0.44" (11.2mm)	0.375" (9.5mm)	0.75" (19mm)	Horse Hair	Zinc Plated Steel	4.5" (11.4cm)



For most up-to-date list

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