



# TECHSPRAY®

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



## PRODUCT CATALOG & APPLICATION GUIDE

V1.0

[www.techspray.com](http://www.techspray.com)



## 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, 100% HFC-134a duster*

**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

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



### Vortex™ High Velocity Duster

*High velocity, 100% HFC-134a 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 HFC-152a duster*

- Best value – 30% more volume
- Lower global warming potential – 10% of HFC-134a
- 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

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



- Very low GWP
- Nonflammable
- Non-ozone depleting
- Velocity – 12 m/s

## DUSTER SELECTION GUIDE

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

## 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

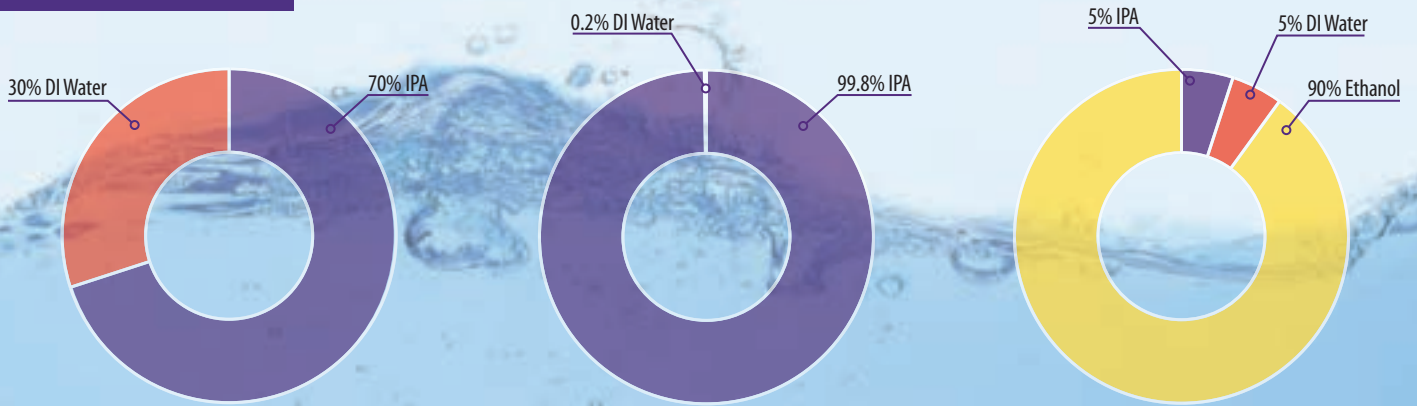


### ALCOHOL SELECTION GUIDE

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
1608-5G	70% IPA	—	5 gal container
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	Commercial-grade 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	Commercial-grade poly-cellulose	Refill rolls, 150ct
1610-100DSP	99.8+% IPA	Non-woven poly	Disposable tub, 100ct
1610CP-150DSP	99.8+% IPA	Commercial-grade 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	Commercial-grade poly-cellulose	Refill rolls, 150ct
1608-50PK	70% IPA	Commercial-grade poly-cellulose	Individually wrapped, 50ct
1610-50PK	99.8+% IPA	Commercial-grade poly-cellulose	Individually wrapped, 50ct
1606-30PK	90% Ethanol	Commercial-grade 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

**Commercial-Grade Nonwoven Cellulose-Poly**  
 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



### MAINTENANCE CLEANER SELECTION GUIDE

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

	3400 PWR-4 Maintenance Cleaner	1630 G3 Maintenance Cleaner	1632 G3 Contact Cleaner	1635 G3 Industrial Cleaner	1638 G3 Universal Solvent	1651 Precision-V	2851-20S PWR4 Aviation Degreaser	1647-16S Aviation Degreaser II	1610 E-LINE IPA	1620 E-LINE Maintenance Cleaner	1622 E-LINE Contact Cleaner	1621 E-LINE Bulk Solvent
<b>PROPERTIES</b>												
Nonflammable	●	●	●		●	●	●	●				
Sensitive plastics						●		●	●	●	●	
Evaporation rate (1=slow, 5=fast)	5	5	5	4	5	5	5	5	3	4	4	4
VOC% (EPA) - Aerosol	75	64	64	69	-	37	65	12.6	75	75	75	-
VOC% (EPA) - Bulk	-	-	-	-	61	49	-	-	100	-	-	100
VOC% (CARB) - Aerosol	75	75	75	69	-	75	-	-	75	75	75	-
VOC% (CARB) - Bulk	-	-	-	-	100	100	-	-	100	-	-	100
Dielectric Strength (kV)	24 kV	27 kV	36 kV	-	27 kV	14 kV	12 kV	-	-	-	-	
kB Values	100	83	78	89	78	54	29	-	87	87	8	
<b>APPLICATIONS</b>												
Benchtop cleaning	●	●	●	●	●	●	●	●	●	●	●	●
Ultrasonic	●				●	●						
Vapor degreasing	●											

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



## Maintenance Cleaner

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



## 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.

**2863-20S** 20 oz (567g) aerosol



- 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



## 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.

**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



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

Specifications: Meets Boeing D6 17487, Rev P



# TECHSPRAY®



## Industrial Maintenance Cleaner

*High power, fast evaporating maintenance cleaner*

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

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



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



## Contact Cleaner

*Nonflammable, powerful contact cleaner*

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

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



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

Specifications: Meets Boeing D6 17487, Rev P



## Flux Remover & Maintenance Cleaner

*Nonflammable and powerful precision cleaner*

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

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

**1651-5G** 5 gal. (19L) pail

**1651-54G** 54 gal. (205L) drum



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



## Blue Shower Maintenance Cleaner

*Powerful and economical aerosol cleaner*

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

**1620-10S** 10 oz. (284g) aerosol



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



## Flux Remover & Maintenance Cleaner

*Powerful and economical liquid cleaner*

Engineered to remove oils, fluxes and other contamination using soak cleaning process or ultrasonic equipment.

- Effective as maintenance cleaner and flux remover
- Ideal for sensitive plastics
- Non-ozone depleting

- 1621-G** 1 gal. (3.8L) pail  
**1621-5G** 5 gal (18.9L) pail  
**1621-54G** 54 gal. (204L) drum



## Contact Cleaner

*Powerful and economical electronic contact cleaner*

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

- 1622-10S** 10 oz. (284g) aerosol  
**1622-13S** 13 oz. (369g) aerosol



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



## IPA Electronics Cleaner

*99.8% IPA in convenient aerosol package*

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

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

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



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





### 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.

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

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



### Glass Cleaner

*Foaming aerosol glass and surface cleaner*

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



- Foaming action
- Streak-free
- Safe on glass & plastics
- Nonflammable

Specifications: GM H1018, Ford Tox #142432

### 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.

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



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

*Note: Not available in California*



## 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](http://www.techspray.com/aviation).



### Aviation Degreaser

**Exceptional nonflammable cleaner for aircraft parts degreasing**

Specially engineered aviation degreaser featuring powerful removal of hydraulic fluid, fuel oils, lubricating oils and greases, and other organic residues. PWR-4 Aviation Degreaser features a powerful, long reaching spray to clean hard-to-reach parts from as far as 10 feet.

**2851-20S** 20 oz (567g) aerosol

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



- Nonflammable
- Fast evaporation
- Zero residue
- Non-ozone depleting
- Does not contain n-propyl bromide
- Dielectric breakdown of 13.7 kV
- CARB compliant

### 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.

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

Specifications:

Boeing BSS7432, Douglas CSD No.1



- Trigger allows for greater control of spray, providing a throttling action for better controlled cleaning
- 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

### Techspray Clean & Prep Wipes

**High pressure cleaner to quickly flush out grease & other soils**

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.



2811-100-69-C

2813-100-69-C



## 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. Both G3, E-LINE™ and Precision-V 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.



TECHSPRAY RENEW™ branded cleaners are innovative solutions that combine the best of current “green” technologies to make the most powerful eco-friendly cleaners on the market.



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

### FLUX REMOVER SELECTION GUIDE

	3401 PWR-4 Flux Remover	1631 G3 Flux Remover	1634 G3 No-Clean Flux Remover	1638 G3 Bulk Solvent	1651 Precision-V	1610 E-LINE IPA	1621 E-LINE Flux Remover	1550 Eco-dFluxer-SMT100	1520 Eco-dFluxer-SMT200	1530 Eco-dFluxer-SMT300
<b>PROPERTIES</b>										
Nonflammable	●	●	●	●	●			●	●	●
Sensitive plastics					●	●	●	●	●	●
Evaporation rate (1=slow, 5=fast)	5	5	5	5	5	3	4	1	1	1
VOC% (EPA) - Aerosol	73	64	64	-	37	75	75	-	-	-
VOC% (EPA) - Bulk	95	-	-	61	49	100	-	45	22	52
VOC% (CARB) - Aerosol	70	75	75	-	75	75	75	-	-	-
VOC% (CARB) - Bulk	100	-	-	100	100	100	-	45	52	22
kB Values	100	83	83	78	54	-	87	-	-	-
<b>APPLICATIONS</b>										
Benchtop cleaning	●	●	●	●	●		●	●		
Ultrasonic	●			●	●			+	+	+
Vapor degreasing	●				●					
Inline defluxing system							●	●	●	
Batch defluxing system							●	●	●	

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

+ Rinse required





## Solvent Defluxers



### 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.

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



- Nonflammable
- Much safer than most common industrial solvents — TCE, nPB, Perc & Methylene Chloride
- Powerful cleaner - Effective on R, RMA & no-clean fluxes
- Available in bulk for vapor degreasing, ultrasonic and immersion cleaning
- Rapid evaporation
- Non-ozone depleting



### Flux Remover

**Strong and fast-acting flux remover**

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

- 1631-5S** 5 oz. (142g) aerosol w/brush attachment
- 1631-16S** 16 oz. (454g) aerosol
- 1631-16SB** 16 oz. (454g) aerosol w/brush attachment



- Nonflammable
- Powerful cleaner
- Proven effective for lead-free processes
- All-in-one cleaner and defluxer
- Rapid evaporation
- Non-ozone depleting

Specifications: Meets Boeing D6 17487, Rev P



### No-Clean Flux Remover

**Strong and fast-acting no-clean flux remover**

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

- 1634-12S** 12 oz. (340g) aerosol



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

Specifications: Meets Boeing D6 17487, Rev P



### Universal Cleaner

**Nonflammable, powerful liquid cleaner**

Engineered to remove oils, fluxes and other contamination from electronics using a manual soak cleaning process or ultrasonic equipment.

- 1638-G** 1 gal. (3.8L) pail
- 1638-5G** 5 gal. (19L) pail
- 1638-54G** 54 gal. (205L) drum



- Nonflammable
- Powerful cleaner
- Effective as maintenance cleaner and flux remover
- Rapid evaporation
- Non-ozone depleting
- Dielectric strength – 27.3 kv



### PRECISION V

#### Flux Remover & Maintenance Cleaner

*Nonflammable and 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). Bulk chemicals ideal for soak cleaning and ultrasonics (not intended for vapor degreaser).

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

<b>1651-16S</b>	16 oz. (454g) aerosol
<b>1651-5G</b>	5 gal. (19L) pail



1651-16S



#### Flux Remover & Maintenance Cleaner

*Powerful and economical flux remover*

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

<b>1621-10S</b>	10 oz. (283g) aerosol
<b>1621-10SB</b>	10 oz. (283g) aerosol w/brush attachment
<b>1621-G</b>	1 gal. (3.8L) can
<b>1621-5G</b>	5 gal (19L) pail
<b>1621-54G</b>	54 gal (205L) drum



1621-G

1621-10S

1621-10SB

1621-5G

- Powerful cleaner
- Proven effective for lead-free processes
- Ideal for sensitive plastics

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



## 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.

To order, add the following to the part # shown in the chart below:  
 -1G for 1 gal. (3.8L)  
 -5G for 5 gal. (19L)  
 -54G for 54 gal. (205L)



Part #	Product Name	Base Solvents	kB value	Boiling Point (°F/°C)	VOC (g/l)	GWP	Degreasing	Defluxing	Plastic-Safe
1654	VC-1200	DuPont Vertrel® XF	56	94/34	552	684	●		
1655	VC-1500	DuPont Vertrel® XF	62	90/32	562	663		●	
1656	VC-1600	DuPont Vertrel® XF	100	106/41	1063	264		●	
1686	ME-1500	3M Novec 7100/7200	58	104/40	889	43	●	●	
1680	AE-1000	Asahi AE3000	~0	133/56	ND	540			●
1681	AE-1400	Asahi AE3000	ND	139/54	ND	540	●	●	●
3400	PWR4 Maintenance Cleaner	3M Novec 7100	100	118/48	1201	ND	●		
3401	PWR4 Flux Remover	3M Novec 7100	100	118/48	1201	ND		●	

ND=Not Defined



## Water-Based Defluxers

### Eco-dFluxer

#### *Water-based Inline & Batch Flux Removers*

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.

Effective on a wide variety of solders and fluxes: lead, lead-free, aqueous, RMA, no-clean, and new halide-free fluxes. 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

#### Eco-dFluxer SMT100

Powerful defluxer, allowing you to optimize your cleaning process. Reduce concentration and increase line speed to maximize your profit. Effective on no-clean, R, RMA and OA fluxes.

<b>1550-G</b>	1 gal. (3.8L) bottle
<b>1550-54G</b>	54 gal. (205L) drum

#### Eco-dFluxer SMT200

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.

<b>1520-G</b>	1 gal. (3.8L) bottle
<b>1520-54G</b>	54 gal. (205L) drum



#### Eco-dFluxer SMT300

Powerful defluxer but safe on sensitive metals, preventing oxidation and leaving shiny solder joints. Safe, eco-friendly formula. Effective on no-clean, R, RMA, OA fluxes and new halide-free fluxes.

<b>1530-G</b>	1 gal. (3.8L) bottle
<b>1530-5G</b>	5 gal. (19L) container
<b>1530-54G</b>	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

<b>1555-P</b>	1 pt. (473mL) container
---------------	-------------------------





## Stencil Cleaners

### 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

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

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



1570-QT

1570-100DSP

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

### Eco-Stencil RF

#### Rinse-Free Batch Stencil Cleaner

**1571-G** 1 gal. (3.8L) bottle



1571-G

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

## 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 200ft<sup>2</sup>)

**1756-G** 1 gal. (3.8L) jug

**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



### Zero Charge Mat & Tabletop Cleaner

#### Safe, effective cleaner for ESD mats

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

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

**1733-G** 1 gal. (3.8L) bottle



1733-QT

### 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 ft<sup>2</sup>)



1720-G

### 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

**1743-50PK** 50 pre-saturated wipes in packets

**1743-QT** 1 qt. (.95L) bottle w/trigger sprayer



1743-50PK



1743-QT

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



## Conformal Coatings

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.



### FINE-L-KOTE™ SR

*Silicone coating that's ideal for moisture and vibration protection*

#### Standard Viscosity — 4-10 CPS

Coverage (1 mil dry film):  
 1 aerosol can - 16 ft<sup>2</sup> (1.5 M<sup>2</sup>)  
 1 gal. liquid - 224 ft<sup>2</sup> (20.8 M<sup>2</sup>)

- 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

- 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.



### FINE-L-KOTE™ SRV

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

#### 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-P950** 1 pint / 0.47L liquid
- 2127-G950** 1 gallon / 3.8L liquid
- 2127-5G950** 5 gallon / 18.9L liquid
- 2127-54G950** 54 gallon / 204L liquid

- 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™ HT

*Silicone coating engineered for superior thermal and moisture resistance*

Coverage (1 mil dry film):  
 1 aerosol can - 20 ft<sup>2</sup> (1.9 M<sup>2</sup>)  
 1 gal. liquid - 880 ft<sup>2</sup> (81.8 M<sup>2</sup>)

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

**2106-G** 1 gal. (3.8L) can



2106-12S

- 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.

### 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.

Coverage (1 mil dry film):  
 1 gal liquid - 723 ft<sup>2</sup> (67.2 m<sup>2</sup>)

**2125-P** 1 pt. / 473 mL can

**2125-G** 1 gal / 3.7 L liquid

**2125-5G** 5 gal / 18.5 L liquid



2125-G

2125-5G

- 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

### FINE-L-KOTE™ AR

*Acrylic Conformal Coating*

Coverage (1 mil dry film):  
 1 aerosol can - 12 ft<sup>2</sup> (1.1 M<sup>2</sup>)

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

**2103-5G** 5 gal. (19L) pail



2103-12S

- Fast & easy rework & repair
- UV indicator for black light QC inspection

### FINE-L-KOTE™ UR

*Urethane Conformal Coating*

Coverage (1 mil dry film):  
 1 aerosol can - 10 ft<sup>2</sup> (0.9 M<sup>2</sup>)  
 1 gal. liquid - 320 ft<sup>2</sup> (29.7 M<sup>2</sup>)

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

**2104-G** 1 gal. (3.8L) can

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



2104-12S

- 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.



## TURBO-COAT™

Acrylic Conformal Coating

Coverage (1 mil dry film):  
 1 aerosol can - 14 ft<sup>2</sup> (1.3 M<sup>2</sup>)  
 1 gal. liquid - 272 ft<sup>2</sup> (25.3 M<sup>2</sup>)

- 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

- 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.

### 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
<b>Product Benefits</b>	Moisture & Vibration Resistant	Moisture & Vibration Resistant	Moisture & Vibration Resistant	Economical	Durable & Chemically Resistant	High Operating Temperature	Economical With Fastest Cure
<b>Selective Spray System</b>	●	●	○	○	●	●	○
<b>Atomized Spray System</b>	●	●	○	○	○	○	○
<b>Dip</b>	●	●	●	○	●	●	●
<b>Aerosol Available</b>	NO	NO	YES	YES	YES	YES	YES
<b>Thermal Resistant</b>	●	●	●	○	○	●	○
<b>Moisture /Fungus Resistant</b>	●	●	●	○	●	●	○
<b>Chemical Resistant</b>	●	●	●	○	●	●	○
<b>Vibration Resistant</b>	●	●	●	○	○	●	○
<b>Ease of Rework</b>	●	●	●	●	○	●	●
<b>Tack Free Time (minutes)</b>	10	10	60	15	15	45	3
<b>Accelerated Cure Time/Temp</b>	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
<b>Ambient Cure Time</b>	24 Hrs.	24 Hrs.	72 Hrs.	24 Hrs.	24 Hrs.	24 Hrs.	<15 Hrs.
<b>IPC-CC-830 Qualified</b>			YES	NO	YES	YES	YES
<b>UL 94 Rated</b>	V-0	V-0	V-0		V-0	V-0	V-0
<b>Solids Content (% by weight)</b>	48%	85%	Aerosol 11% Bulk 14%	Aerosol 6.1% Bulk 21%	Aerosol 7% Bulk 20%	Aerosol 16% Bulk 25%	Aerosol 7% Bulk 17%
<b>Viscosity (centipoise)</b>	Bulk 82	Bulk 950	Aerosol 4-10 Bulk 4-10	Aerosol 22 Bulk 44	Aerosol 12-22 Bulk 10-20	Aerosol 15-25 Bulk 15-25	Aerosol 10-20 Bulk 15-25
<b>UV Indicator</b>	YES	YES	YES	YES	YES	YES	YES
<b>Operating Temp Range</b>	-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
<b>Dielectric Strength</b>	720 kV/Mil	720 kV/Mil	1.1 kV/Mil	2086 kV	380 V/Mil	560 V/Mil	1 kV/Mil
<b>Dielectric Constant</b>	1.017	1.017	2.66	3.1	3.8	2.5	
<b>Insulation Resistance (ohms)</b>	>1.4 x 10 <sup>12</sup>	>1.4 x 10 <sup>12</sup>	6.87 x 10 <sup>15</sup>	4 x 10 <sup>13</sup>	1.78 x 10 <sup>16</sup>	1.33 x 10 <sup>16</sup>	4.89 x 10 <sup>16</sup>
<b>VOC</b>	Bulk 13%	Bulk 4%	Aerosol 46% Bulk 58%	Aerosol 29% Bulk 54%	Aerosol 52% Bulk 54%	Aerosol 51% Bulk 79%	Aerosol 33% Bulk 64%

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



## TURBO-COAT HV™

### Acrylic Conformal Coating

Coverage (1 mil dry film):  
1 gal. liquid - 391 ft<sup>2</sup> (36.3 M<sup>2</sup>)

**2109-P** 1 pt. (473mL) can

**2109-G** 1 gal. (3.8L) can

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

- 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.



2109-G

2109-5G

	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 <sup>16</sup>	>1.4 x 10 <sup>12</sup>
	Bulk 7%	Bulk 13%

## 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
- Non-ozone depleting

**2130-G** 1 gal. (3.8L) can

**2130-5G** 5 gal. (19L) pail

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



2130-G

## Conformal Coating Remover

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

## Turbo-Coat Thinner

Thinner ideally matched to Turbo-Coat coatings

**2110-P** 1 pt. (473mL) can

## 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



### Washable Masks *Used with aqueous cleaning processes.*

#### 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.

- 2204-8SQ** 8 fl. oz. (237mL) squeeze bottle  
**2204-G** 1 gal. (3.8L) bottle



2204-8SQ

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

#### WonderMASK W

*Nonflammable, water-washable*

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

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

**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

- Water washable
  - Non-corrosive
  - Low odor
  - Nonflammable
- Specifications: Meets MIL-STD-2000 paragraph 5.3.18 parts a,b, and d. (2206) HP 8500-4214

### TEMPORARY SOLDER MASK SELECTION GUIDE

PRODUCT	APPLICATION	VISCOSITY	SUGGESTED THICKNESS	THINNER	CURE TIME	REMOVAL
<b>PEELABLE</b>						
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
<b>WATER-SOLUBLE</b>						
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




**Peelable Masks** *Used with solvent cleaning and no-clean processes.*
**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.

**WonderMASK P**

*Non-ammoniated, low odor peelable mask*

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

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

**2211-8SQ** 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



2211-8SQ

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

**Techform TC-533 Peelable Mask**

Techform TC-533 peelable mask is a high-temperature flexible solder masking compound specially formulated of natural latex rubber. Prevent solder from flowing into contacts, terminals, screw heads and plated through holes.

Latex has been chemically enhanced so that it is heat stable enough for wave soldering processes. Effectively mask and protect the board from the time it is manufactured, through all assembly and reflow operations.

*NOTE: Not recommended on bare copper because ammonia may cause discoloration.*

- Fast cure
- Easily peelable
- Will not tarnish gold or phosphor bronze
- Protects delicate components
- Nonflammable

**53-4008-0533**  
 8 fl. oz (237mL) squeeze bottle

**53-4003-0533**  
 1 gal. (3.8L) bottle



53-4008-0533



## 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

### Freeze Spray

*Pure HFC-134a 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



1672-10S



1672-15S



### Anti-Static Freeze Spray

*ESD-Safe Diagnostic Freeze Spray*

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



1747-10S

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

### 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.

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



- Chills down to -49°F (-45°C)
- Ultra-low GWP
- Nonflammable
- Non-ozone depleting



## 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

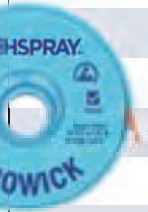
### DESOLDERING BRAID SELECTION CHART

#1 White	#2 Yellow	#3 Green
.035" (0.9mm)	.055" (1.4mm)	.075" (1.9mm)
#4 Blue	#5 Brown	#6 Red
.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

2506-N Single-pack of 11.5 ml pen



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

### TraceTech™

#### No-Clean Flux Dispensing Pen

No-clean flux applicator pen for PCB rework and repair

2507-N Single-pack of 11.5 ml pen

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



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

### TraceTech™

#### Conductive Pen

Silver ink pen for repairing electronic traces

2505-N Single-pack of 4.9 ml pen



- Repairs traces
- Makes smooth jumpers

### TraceTech™

#### Overcoat Pen

Resist repair pen for PCB rework and repair

2509-GN Single-pack of 5 ml pen



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

### TraceTech™

#### Conformal Coating Remover Pen

Spot coating remover in applicator pen for PCB rework and repair

2510-N 11 ml pen

2510-P 1 pt. (0.47L) can



- Fast stripping action
- Non-corrosive
- Rapid evaporation

## Heat Sink / Transister Grease

### Silicone Heat Sink Compound

Heat sink compound for electrical applications

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



- 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

### Silicone-Free Heat Sink Compound

Heat-sink for electronics, avoid silicone contamination

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

1978-1 1 lb. (454g) jar



- 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



## 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.



- **Maintenance Wipers:** Lower cost, high quality wipers for heavy-duty cleaning.
- **Delicate Task Wipers:** Cellulose tissue for light cleaning, like in lab settings.
- **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
2340 Cotton Wiper		Cotton	Non-woven	●	●	●	○	○	●	●	○	●	●
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	●	●	○	○	○	●	○	○	○	○
2368 LCD Wipe	n/a	Nylon	Knit	●	●	○	○	●	○	●	●	●	●

Note: To qualify for your cleanroom requirements, please refer to [www.techspray.com](http://www.techspray.com) for full data sheets.



## TechClean Wiper CLASS 100 General Purpose Wipe

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

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



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

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

## 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.

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



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

## Cotton Cleanroom Wiper

This hydroentangled cotton wipe has high absorbency with extra low particulate and chemical extractables. Ideal for stencil cleaning.

**2340-100** 100 - 9" x 9", (23cm x 23 cm), flat wipes, double-bagged



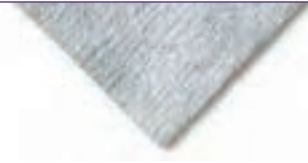
- Low chemical extractables
- Lint-free & soft
- Biodegradable & sustainable
- High absorbency - 6 times its weight
- Made with USA grown cotton

## TechClean Absorbwipe™ CLASS 100 For Sensitive Surfaces

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

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

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



- Non-abrasive
- Extremely soft
- Highly absorbent

## TechClean Maintenance Wipes

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

**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



- High absorbency
- Economical



### Anti-Static Wipe



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.

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



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

### 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.

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



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

### Microfiber Glass & Plastic Cleaning Wipes

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

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



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

### LCD & Plasma Screen Cleaning Wipes

Soft and low-linting microfiber terry cloth is ideal for cleaning and polishing LCD and plasma screens, plexi-glass, chrome, and other sensitive surfaces. Buffs surface to a shine with or without cleaner.

**2368-2** 2 - 16"x 16" (40.6cm x 40.6cm) dry wipes w/hemmed edges



- Cleans & polishes sensitive surfaces
- Perfect for chrome polishing
- Effective wet or dry
- Washable (avoid fabric softener)
- Low-linting

### 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
<b>2366-DEK</b>	DEK	DEK 265, #129051/GS, GSX & 288	0.75" (19mm)	1	20.3" (515mm)	20.9" (530mm)	39' (11.9 M)
<b>2367-MPM</b>	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.

### 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
<b>2300</b>	0.1875" (4.8mm)	Wrapped	6" (15cm)	Wood	—	2300-100	2300-1000
<b>2301</b>	0.1875" (4.8mm)	Wrapped	6" (15cm)	Wood	—	2301-100	2301-1000
<b>2313</b>	0.125" (3.2mm)	Wrapped	3.25" (8.3cm)	Paper	2313-30PK	—	—

### Foam TechSwabs

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



## 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
<b>2316</b>	0.05" (1.25mm)	Heat Sealed	6.25" (16cm)	Polypropylene	2316-50	2316-1000
Flexible Tip						
<b>2317</b>	0.1" (2.5mm)	Heat Sealed	6.25" (16cm)	Polypropylene	2317-50	2317-1000
Flexible Tip						

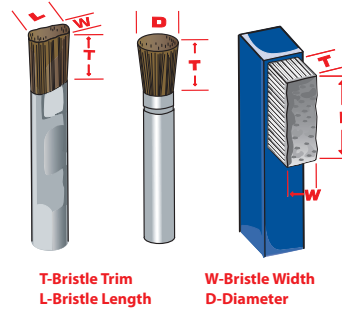
## Brushes

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.



**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
		<b>2020-1</b>	1.375" (35mm)	0.25" (6.4mm)	0.44" (11mm)	Horse Hair	Wood	7.75" (19.7cm)
		<b>2021-1</b>	1.375" (35mm)	0.25" (6.4mm)	0.44" (11mm)	Hog Bristle	Wood	7.75" (19.7cm)
		<b>2022</b>	2.125" (54mm)	0.875" (22mm)	0.75" (19mm)	Hog Bristle	Wood	8.375" (21.3cm)
		<b>2025-1</b>	1.375" (35mm)	0.25" (6.4mm)	0.44" (11mm)	Brass .003" (0.08mm)	Wood	7.75" (19.7cm)
		<b>2027-1</b>	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
		<b>2040-1</b>	1.19" (30.2mm)	0.125" (3.2mm)	0.44" (11.2mm)	Horse Hair	Anodized Aluminum	6.44" (16.4cm)
		<b>2042-1</b>	1.19" (30.2mm)	0.375" (9.5mm)	0.44" (11.2mm)	Horse Hair	Anodized Aluminum	6.44" (16.4cm)
		<b>2043-1</b>	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
		<b>2030-1</b>	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>	<b>2031-1</b>	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>	<b>2032-1</b>	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)
		<b>2033-1</b>	0.44" (11.2mm)	0.375" (9.5mm)	0.75" (19mm)	Horse Hair	Zinc Plated Steel	4.5" (11.4cm)





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Go to [www.techspray.com](http://www.techspray.com)

for up-to-date product specs, documents, videos & more!



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