PRODUCT CATALOG & APPLICATION GUIDE

MAINTENANCE & REPAIR

PRECISION CLEANING

PCB ASSEMBLY

REWORK & REPAIR

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

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

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

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.

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

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

DUSTER SELECTION GUIDE

<table>
<thead>
<tr>
<th>Duster Type</th>
<th>Spray Power</th>
<th>Nonflammable</th>
<th>360° Spray</th>
<th>Contents</th>
<th>GWP*</th>
<th>Use On Live Circuits</th>
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<tbody>
<tr>
<td>1697-10S Vortex Duster</td>
<td>Best</td>
<td>Yes</td>
<td>No</td>
<td>HFC-134a</td>
<td>1300</td>
<td>Yes</td>
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<tr>
<td>1697-8S Vortex 360° Duster</td>
<td>Best</td>
<td>Yes</td>
<td>Yes</td>
<td>HFC-134a</td>
<td>1300</td>
<td>Yes</td>
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<tr>
<td>1671 Duster</td>
<td>Good</td>
<td>Yes</td>
<td>No</td>
<td>HFC-134a</td>
<td>1300</td>
<td>Yes</td>
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<td>1673 Economy Duster</td>
<td>Good</td>
<td>No</td>
<td>No</td>
<td>HFC-152a</td>
<td>140</td>
<td>No</td>
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<td>1580 Renew-Duster</td>
<td>Good</td>
<td>Yes</td>
<td>No</td>
<td>HFO-1234ze</td>
<td>&lt;1</td>
<td>Yes</td>
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</table>

* 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

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

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**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)*.

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*Source: [https://www.cdc.gov/infectioncontrol/guidelines/disinfection/disinfection-methods/chemical.html](https://www.cdc.gov/infectioncontrol/guidelines/disinfection/disinfection-methods/chemical.html)

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**WIPE PACKAGING**

- **Disposabe 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.

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>H3G4 Industrial Cleaner</th>
<th>H3G5 Industrial Cleaner</th>
<th>H3G6 Industrial Cleaner</th>
<th>H3G7 Industrial Cleaner</th>
<th>H3G9 Industrial Cleaner</th>
<th>H3G10 Industrial Cleaner</th>
<th>H3G11 Industrial Cleaner</th>
<th>H3G12 Industrial Cleaner</th>
<th>H3G13 Industrial Cleaner</th>
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<tr>
<td>Nonflammable</td>
<td>● ● ● ● ● ● ● ● ● ● ● ●</td>
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<td>Sensitive plastics</td>
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<tr>
<td>Evaporation rate (1=slow, 5=fast)</td>
<td>5 5 5 4 5 5 5 3 4 4 4</td>
<td>5 5 5 4 5 5 5 3 4 4 4</td>
<td>5 5 5 4 5 5 5 3 4 4 4</td>
<td>5 5 5 4 5 5 5 3 4 4 4</td>
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<td>VOC% (EPA) - Aerosol</td>
<td>75 64 64 69 - 37 65 12.6 75 75 75 -</td>
<td>75 64 64 69 - 37 65 12.6 75 75 75 -</td>
<td>75 64 64 69 - 37 65 12.6 75 75 75 -</td>
<td>75 64 64 69 - 37 65 12.6 75 75 75 -</td>
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<td>75 64 64 69 - 37 65 12.6 75 75 75 -</td>
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<td>75 75 75 69 - 75 75 75 - 75 75 75 -</td>
<td>75 75 75 69 - 75 75 75 - 75 75 75 -</td>
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<td>VOC% (CARB) - Bulk</td>
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<td>Dielectric Strength (kV)</td>
<td>24 kV 27 kV 36 kV - 27 kV 14 kV 12 kV - - - -</td>
<td>24 kV 27 kV 36 kV - 27 kV 14 kV 12 kV - - - -</td>
<td>24 kV 27 kV 36 kV - 27 kV 14 kV 12 kV - - - -</td>
<td>24 kV 27 kV 36 kV - 27 kV 14 kV 12 kV - - - -</td>
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<td>24 kV 27 kV 36 kV - 27 kV 14 kV 12 kV - - - -</td>
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<td>kB Values</td>
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<td>100 83 78 89 78 54 29 - 87 87 8</td>
<td>100 83 78 89 78 54 29 - 87 87 8</td>
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<td>100 83 78 89 78 54 29 - 87 87 8</td>
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<td>APPLICATIONS</td>
<td>Benchtop cleaning</td>
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<td>Vapor degreasing</td>
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</table>

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

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

Specifications:

- 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

Specifications:

- 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

Specifications: Meets Boeing D6 17487, Rev P

- Nonflammable
- Powerful cleaner
- Rapid evaporation
- Non-ozone depleting
- Dielectric strength ~ 27.3 kV
- NSF registered K1, K2
**Degreasers / Contact Cleaners**

**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

**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

**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

**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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1621-G</td>
<td>1 gal. (3.8L) pail</td>
<td></td>
</tr>
<tr>
<td>1621-5G</td>
<td>5 gal (18.9L) pail</td>
<td></td>
</tr>
<tr>
<td>1621-54G</td>
<td>54 gal. (204L) drum</td>
<td></td>
</tr>
</tbody>
</table>

**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.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1622-10S</td>
<td>10 oz. (284g) aerosol</td>
<td></td>
</tr>
<tr>
<td>1622-13S</td>
<td>13 oz. (369g) aerosol</td>
<td></td>
</tr>
</tbody>
</table>

**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
- Non-ozone depleting

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1610-12S</td>
<td>12 oz. (340g) aerosol</td>
<td></td>
</tr>
</tbody>
</table>

*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*
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*
Degreasers / Contact Cleaners

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.

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:
• 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 contains 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**

<table>
<thead>
<tr>
<th>Flux Removers</th>
<th>340 PWR-4 Flux Remover</th>
<th>861 G3 Flux Remover</th>
<th>864-2 G3 No-Clean Flux Remover</th>
<th>861 Precision-V</th>
<th>861 E-LINE IPA</th>
<th>1601 F3 No-Flux THM</th>
<th>1750 Co-de-flux SMT100</th>
<th>1750 Co-de-flux SMT260</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PROPERTIES</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonflammable</td>
<td>● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
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</tr>
<tr>
<td>Sensitive plastics</td>
<td>● ● ● ● ● ● ● ●</td>
<td>● ● ● ● ● ● ● ●</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate (1=slow, 5=fast)</td>
<td>5 5 5 5 3 4 1 1 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC% (EPA) - Aerosol</td>
<td>73 64 64 - 37 75 75 - - -</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC% (EPA) - Bulk</td>
<td>95 - - 61 49 100 - 45 22 52</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC% (CARB) - Aerosol</td>
<td>70 75 75 - 75 75 75 - - -</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOC% (CARB) - Bulk</td>
<td>100 - - 100 100 100 - 45 52 22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>k8 Values</td>
<td>100 83 83 78 54 87 - - -</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **APPLICATIONS**      |                        |                     |                                |                 |               |                   |                        |                        |
| 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
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

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1651-16S</td>
<td>16 oz. (454g) aerosol</td>
</tr>
<tr>
<td>1651-5G</td>
<td>5 gal. (19L) pail</td>
</tr>
</tbody>
</table>

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

---

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.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1621-10S</td>
<td>10 oz. (283g) aerosol</td>
</tr>
<tr>
<td>1621-10SB</td>
<td>10 oz. (283g) aerosol w/brush attachment</td>
</tr>
<tr>
<td>1621-G</td>
<td>1 gal. (3.8L) can</td>
</tr>
<tr>
<td>1621-5G</td>
<td>5 gal. (19L) pail</td>
</tr>
<tr>
<td>1621-54G</td>
<td>54 gal (205L) drum</td>
</tr>
</tbody>
</table>

**Specifications:**
- 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.

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

ND=Not Defined

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)
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.

- **1550-G** 1 gal. (3.8L) bottle
- **1550-54G** 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.

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

**Eco-dFluxer SMT300**


- **1530-G** 1 gal. (3.8L) bottle
- **1530-5G** 5 gal. (19L) container
- **1530-54G** 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
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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1570-100DSP</td>
<td>100 count pre-saturated wipes, 6”x8” (15cm x 20cm)</td>
<td></td>
</tr>
<tr>
<td>1570-QT</td>
<td>1qt. (0.95L) w/ trigger sprayer</td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1571-G</td>
<td>1 gal. (3.8L) bottle</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1573-QT</td>
<td>1 qt. (0.95L) w/ trigger sprayer</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1756-8S</td>
<td>8 oz. (226g) aerosol (coats up to 200ft²)</td>
<td></td>
</tr>
<tr>
<td>1756-G</td>
<td>1 gal. (3.8L) jug</td>
<td></td>
</tr>
<tr>
<td>1756-54G</td>
<td>54 gal. (204L) drum</td>
<td></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1733-QT</td>
<td>1 qt. (95L) bottle with trigger sprayer</td>
<td></td>
</tr>
<tr>
<td>1733-G</td>
<td>1 gal. (3.8L) bottle</td>
<td></td>
</tr>
</tbody>
</table>

### Zero Charge Anti-Stat Coating
Anti-static coating for fabrics & flexible surfaces
- All-purpose static control
- For plastics, fabrics, and carpet
- Fast drying
- Nonflammable

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1726-QT</td>
<td>1 qt. (95L) bottle with trigger sprayer</td>
<td></td>
</tr>
</tbody>
</table>

### Zero Charge® ESD-Safe Floor Coating
ESD-safe floor coating
- Resistivity between 10⁶ To 10¹⁰ ohms
- Effective in low humidity
- High gloss polymer
- Zinc free
- Slip resistant

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1720-G</td>
<td>1 gal. (3.8L) bottle (coats @1,200 ft²)</td>
<td></td>
</tr>
</tbody>
</table>

### Zero Charge Screen & Keyboard Cleaner
Cleans surfaces and leaves behind dissipative residue
- Cleans plastic & glass
- Leaves ESD-safe coating
- Leaves no insulative film
- Nonflammable
- Non-corrosive

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1743-50PK</td>
<td>50 pre-saturated wipes in packets</td>
<td></td>
</tr>
<tr>
<td>1743-QT</td>
<td>1 qt. (95L) bottle w/trigger sprayer</td>
<td></td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1702-8FP</td>
<td>8 fl. oz. (237ml) bottle with finger pump</td>
<td></td>
</tr>
<tr>
<td>1702-G</td>
<td>1 gal. (3.8L) bottle</td>
<td></td>
</tr>
</tbody>
</table>
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 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

• 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. UL 94 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. UL 94 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 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

• 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 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

• 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 ft² (1.1 M²)
2103-12S  12 oz. (355ml) aerosol
2103-5G  5 gal. (19L) pail

• 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 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

• 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.
### Conformal Coating Selection Guide

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Moisture &amp; Vibration Resistant</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Selective Spray System</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Atomized Spray System</td>
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<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Dip</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Aerosol Available</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Thermal Resistant</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Moisture /Fungus Resistant</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Chemical Resistant</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Vibration Resistant</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Ease of Rework</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Tack Free Time (minutes)</td>
<td>10</td>
<td>10</td>
<td>60</td>
<td>15</td>
<td>15</td>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>Accelerated Cure Time/Temp</td>
<td>2 Step 30 Min.@ 32°C 45 Min.@ 93°C</td>
<td>2 Step 30 Min.@ 32°C 45 Min.@ 93°C</td>
<td>2 Step 30 Min.@ 32°C 45 Min.@ 93°C</td>
<td>2 Step 20 Min.@ 120°F 30 Min.@ 180°F</td>
<td>2 Step 20 Min.@ 49°C 30 Min.@ 82°F</td>
<td>1 Step 15 Min.@ 49°C 20 Min.@ 65°C</td>
<td>1 Step 20 Min.@ 65°C</td>
</tr>
<tr>
<td>Ambient Cure Time</td>
<td>24 Hrs.</td>
<td>24 Hrs.</td>
<td>72 Hrs.</td>
<td>24 Hrs.</td>
<td>24 Hrs.</td>
<td>24 Hrs.</td>
<td>&lt;15 Hrs.</td>
</tr>
<tr>
<td>IPC-CC-830 Qualified</td>
<td>YES</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>UL 94 Rated</td>
<td>V-0</td>
<td>V-0</td>
<td>V-0</td>
<td>V-0</td>
<td>V-0</td>
<td>V-0</td>
<td>V-0</td>
</tr>
<tr>
<td>Solids Content (% by weight)</td>
<td>48%</td>
<td>85%</td>
<td>Aerosol 11% Bulk 14%</td>
<td>Aerosol 6.1% Bulk 21%</td>
<td>Aerosol 7% Bulk 20%</td>
<td>Aerosol 36% Bulk 25%</td>
<td>Aerosol 7% Bulk 17%</td>
</tr>
<tr>
<td>Viscosity (centipoise)</td>
<td>Bulk 82</td>
<td>Bulk 950</td>
<td>Aerosol 4-10 Bulk 4-10</td>
<td>Aerosol 22 Bulk 44</td>
<td>Aerosol 12-22 Bulk 10-20</td>
<td>Aerosol 15-25 Bulk 15-25</td>
<td>Aerosol 10-20 Bulk 15-25</td>
</tr>
<tr>
<td>UV Indicator</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Operating Temp Range</td>
<td>-65° to 200° C</td>
<td>-65° to 200° C</td>
<td>-65° to 200° C</td>
<td>-65° to 125° C</td>
<td>-30° to 121° C</td>
<td>-40° to 350° C</td>
<td>-65° to 125° C</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>720 kV/Mil</td>
<td>720 kV/Mil</td>
<td>1.1 kV/Mil</td>
<td>2086 kV</td>
<td>380 V/Mil</td>
<td>560 V/Mil</td>
<td>1 kV/Mil</td>
</tr>
<tr>
<td>Dielectric Constant</td>
<td>1.017</td>
<td>1.017</td>
<td>2.66</td>
<td>3.1</td>
<td>3.8</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>Insulation Resistance (ohms)</td>
<td>&gt;1 x 10¹²</td>
<td>&gt;1 x 10¹²</td>
<td>6.87 x 10¹⁵</td>
<td>4 x 10¹⁵</td>
<td>1.78 x 10¹⁵</td>
<td>1.33 x 10¹⁵</td>
<td>4.89 x 10¹⁵</td>
</tr>
<tr>
<td>VOC</td>
<td>Bulk 13%</td>
<td>Bulk 4%</td>
<td>Aerosol 46% Bulk 58%</td>
<td>Aerosol 29% Bulk 54%</td>
<td>Aerosol 52% Bulk 54%</td>
<td>Aerosol 51% Bulk 79%</td>
<td>Aerosol 33% Bulk 64%</td>
</tr>
</tbody>
</table>

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

- 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

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 HV**

*Acrylic Conformal Coating*

Coverage (1 mil dry film):
- 1 gal. liquid - 391 ft² (36.3 M²)

<table>
<thead>
<tr>
<th>2109 Turbo-Coat HV</th>
<th>2125 Fine-Kote LED2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economical with Fastest Cure</td>
<td>Optically Clear</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>USE 2108-12S</td>
<td>No</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
</tr>
</tbody>
</table>

- 1 Step
- 55 Min. @ 55°C
- <15 Hrs
- YES
- V-0
- Bulk 24%
- Bulk 55-60
- YES
- -65° to 125°C
- 1 kV/Mil
- 4.89 x 10¹⁸
- Bulk 7%

- 2 Step
- 30 Min. @ 32°C
- 45 Min. @ 93°C
- 24 Hrs.
- YES
- V-0
- Bulk 48%
- Bulk 66-76
- NO
- 65° to 200°C
- 1 kV/Mil
- 1.4 x 10¹⁰
- Bulk 13%

- 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-46058C.

---

**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

<table>
<thead>
<tr>
<th>2130-G</th>
<th>1 gal. (3.8L) can</th>
</tr>
</thead>
<tbody>
<tr>
<td>2130-SG</td>
<td>5 gal. (19L) pail</td>
</tr>
<tr>
<td>2130-54G</td>
<td>54 gal. (204L) drum</td>
</tr>
</tbody>
</table>

---

**Conformal Coating Remover**

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

- Fast stripping action
- Non-corrosive
- Rapid evaporation

<table>
<thead>
<tr>
<th>2510-N</th>
<th>10 ml pen</th>
</tr>
</thead>
<tbody>
<tr>
<td>2510-P</td>
<td>1 pt. (473mL) can</td>
</tr>
</tbody>
</table>

---

**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 systems.

8 fl. oz. (237mL) squeeze bottle
1 gal. (3.8L) bottle

Hand Applications:

8 fl. oz. (237mL) squeeze bottle
1 gal. (3.8L) bottle

Robotic & Pneumatic Applications:

1 gal. (3.8L) bottle

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:

8 fl. oz. (237mL) squeeze bottle
1 gal. (3.8L) bottle

Robotic & Pneumatic Applications:

1 gal. (3.8L) bottle

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

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>APPLICATION</th>
<th>VISCOSITY</th>
<th>SUGGESTED THICKNESS</th>
<th>THINNER</th>
<th>CURE TIME</th>
<th>REMOVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2211 WonderMASK P</td>
<td>Template, Hand, Pneumatic, Robotic</td>
<td>28,000 – 32,000 cps</td>
<td>20 – 30 mils</td>
<td>D.I. Water</td>
<td>1 hr. Ambient 30 min. @65°C 20 min. @82°C</td>
<td>Peelable</td>
</tr>
<tr>
<td>2222 WonderMASK PX</td>
<td>Hand Applied</td>
<td>9,000 – 16,000 cps</td>
<td>15 mils</td>
<td>D.I. Water</td>
<td>15 min. Ambient</td>
<td>Peelable</td>
</tr>
<tr>
<td>TC-533 Techform</td>
<td>Hand Applied</td>
<td>9,000 – 15,000 cps</td>
<td>15 mils</td>
<td>D.I. Water</td>
<td>1 hr min. Ambient 30 min. @65°C</td>
<td>Peelable</td>
</tr>
<tr>
<td>2204 WonderMASK WSOL</td>
<td>Hand, Pneumatic</td>
<td>11,500 – 15,500 cps</td>
<td>5 – 15 mils</td>
<td>Methanol</td>
<td>30 min. @65°C</td>
<td>Soluble in Water 49°C or higher</td>
</tr>
<tr>
<td>2205 WonderMASK W</td>
<td>Hand Applied</td>
<td>8,000 – 12,000 cps</td>
<td>10 – 15 mils</td>
<td>D.I. Water</td>
<td>30 min. @80°C 1-2 hrs. Ambient</td>
<td>Soluble in Water 49°C or higher</td>
</tr>
<tr>
<td>2206 WonderMASK W</td>
<td>Pneumatic, Robotic</td>
<td>6,050 – 6,450 cps</td>
<td>10 – 15 mils</td>
<td>D.I. Water</td>
<td>1-2 hrs. Ambient 30 min. @80°C</td>
<td>Soluble in Water 49°C or higher</td>
</tr>
</tbody>
</table>
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 peeleable
- Highest strength to avoid breakage
- Nonflammable

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2222-8SQ</td>
<td>8 fl. oz. (237mL) squeeze bottle</td>
<td>2222-G</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2211-8SQ</td>
<td>8 fl. oz. (237mL) squeeze bottle</td>
<td>2211-G</td>
</tr>
<tr>
<td>2211-5G</td>
<td>5 gal. (19L) pail</td>
<td>2211-54G</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>53-4008-0533</td>
<td>8 fl. oz (237mL) squeeze bottle</td>
<td>53-4003-0533</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Net Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1672-10S</td>
<td>10 oz. (283g) aerosol</td>
<td>230 g</td>
<td>10 oz.</td>
</tr>
<tr>
<td>1672-15S</td>
<td>15 oz. (425g) aerosol</td>
<td>335 g</td>
<td>15 oz.</td>
</tr>
</tbody>
</table>

**Anti-Static Freeze Spray**

*ESD-Safe Diagnostic Freeze Spray*

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Net Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1747-10S</td>
<td>10 oz. (283g) aerosol</td>
<td>230 g</td>
<td>10 oz.</td>
</tr>
</tbody>
</table>

**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-Freeze can be a drop-in replacement when GWP needs to be lowered.

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Net Weight</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1583-10S</td>
<td>10 oz. (283g) aerosol</td>
<td>230 g</td>
<td>10 oz.</td>
</tr>
</tbody>
</table>
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

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

* Not packaged in ESD-safe bobbins

**Pro-Wick® Rosin — ESD-Safe Bobbin**

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

**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.

**Unfluxed Wick — ESD-Safe Bobbin**

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

**Desoldering Braid Selection Chart**

Wick in selection chart shown actual size.

**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

**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

**Conductive Pen**
*Silver ink pen for repairing electronic traces*
- **2505-N** Single-pack of 4.9 ml pen
  - Repairs traces
  - Makes smooth jumpers

**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

**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 / Transistor 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 Wipes**: Polishing wipes that are ideal for screen and display cleaning, with or without a cleaner.
- **SMT Roll Wipes**: DEK and MPM understencil roll wipes to fit the most common printers.

### TECHCLEAN® WIPES SELECTION GUIDE

<table>
<thead>
<tr>
<th>Properties</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleanroom</td>
<td>Material</td>
</tr>
<tr>
<td>2340 Cotton Wiper</td>
<td>Cotton</td>
</tr>
<tr>
<td>2350 Wiper</td>
<td>100 / ISO S</td>
</tr>
<tr>
<td>2351/2352 Absorbwipe</td>
<td>100 / ISO S</td>
</tr>
<tr>
<td>2355 Purewipe</td>
<td>100 / ISO S</td>
</tr>
<tr>
<td>2357 Twill Wipe</td>
<td>n/a</td>
</tr>
<tr>
<td>2359/2364/2365 Maintenance Wipe</td>
<td>n/a</td>
</tr>
<tr>
<td>2362 Antistatic Wipe</td>
<td>10 / ISO 4</td>
</tr>
<tr>
<td>2363 Microfiber Wipe</td>
<td>n/a</td>
</tr>
<tr>
<td>2366/2367 Roll Wipes</td>
<td>n/a</td>
</tr>
<tr>
<td>2368 LCD Wipe</td>
<td>n/a</td>
</tr>
</tbody>
</table>

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

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

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

TechClean Purwipe™
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

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

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

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

TechClean Absorbwipe™
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

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”x9”(23cm x 23cm) dry wipes
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

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

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”x8” (20cm x 20cm) dry wipes w/hemmed edges, double-bagged

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

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

<table>
<thead>
<tr>
<th>Part #</th>
<th>OEM Brand</th>
<th>Equip model</th>
<th>Core ID</th>
<th>Notch</th>
<th>Paper Width</th>
<th>Core Width</th>
<th>Matl Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2366-DEK</td>
<td>DEK</td>
<td>DEK 265, #129051/GS, GSX &amp; 288</td>
<td>0.75” (19mm)</td>
<td>1</td>
<td>20.3” (515mm)</td>
<td>20.9” (530mm)</td>
<td>39” (11.9 M)</td>
</tr>
<tr>
<td>2367-MPM</td>
<td>MPM</td>
<td>MPM #1485/AP &amp; UP2000</td>
<td>0.75” (19mm)</td>
<td>0</td>
<td>17.5” (444mm)</td>
<td>18” (457mm)</td>
<td>39” (11.9 M)</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Tip Width</th>
<th>Attachment of Tip</th>
<th>Handle Length</th>
<th>Handle Material</th>
<th>30 Pack Bag</th>
<th>100 Pack Bag</th>
<th>1000 Pack Bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>2300</td>
<td>0.1875&quot; (4.8mm)</td>
<td>Wrapped</td>
<td>6&quot; (15cm)</td>
<td>Wood</td>
<td>—</td>
<td>2300-100</td>
<td>2300-1000</td>
</tr>
<tr>
<td>2301</td>
<td>0.1875&quot; (4.8mm)</td>
<td>Wrapped</td>
<td>6&quot; (15cm)</td>
<td>Wood</td>
<td>—</td>
<td>2301-100</td>
<td>2301-1000</td>
</tr>
<tr>
<td>2313</td>
<td>0.125&quot; (3.2mm)</td>
<td>Wrapped</td>
<td>3.25&quot; (8.3cm)</td>
<td>Paper</td>
<td>2313-30PK</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Tip Width</th>
<th>Attachment of Tip</th>
<th>Handle Length</th>
<th>Handle Material</th>
<th>50 Pack Bag</th>
<th>1000 Pack Bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>2302</td>
<td>0.44&quot; (11.2mm)</td>
<td>Heat Sealed</td>
<td>6&quot; (15cm)</td>
<td>Polypropylene</td>
<td>2302-50</td>
<td>2302-1000</td>
</tr>
<tr>
<td>2303</td>
<td>0.19&quot; (4.8mm)</td>
<td>Heat Sealed</td>
<td>6&quot; (15cm)</td>
<td>Polypropylene</td>
<td>2303-50</td>
<td>2303-1000</td>
</tr>
<tr>
<td>2306</td>
<td>0.5&quot; (13mm)</td>
<td>Heat Sealed</td>
<td>5&quot; (13cm)</td>
<td>Polypropylene</td>
<td>2306-50</td>
<td>2306-1000</td>
</tr>
<tr>
<td>2307</td>
<td>0.19&quot; (4.8mm)</td>
<td>Heat Sealed</td>
<td>4&quot; (10cm)</td>
<td>Polypropylene</td>
<td>2307-50</td>
<td>2307-1000</td>
</tr>
<tr>
<td>2309</td>
<td>0.125&quot; (3.2mm)</td>
<td>Heat Sealed</td>
<td>3&quot; (7.6cm)</td>
<td>Polypropylene</td>
<td>—</td>
<td>2309-1000</td>
</tr>
<tr>
<td>2311</td>
<td>0.125&quot; (3.2mm)</td>
<td>Heat Sealed</td>
<td>2.625&quot; (6.7cm)</td>
<td>Polypropylene</td>
<td>—</td>
<td>2311-1000</td>
</tr>
</tbody>
</table>
**Fiber Optic TechSwabs**

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.

<table>
<thead>
<tr>
<th>Product</th>
<th>Tip Width</th>
<th>Attachment of Tip</th>
<th>Handle Length</th>
<th>Handle Material</th>
<th>50 Pack Bag</th>
<th>1000 Pack Bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>2316</td>
<td>0.05&quot; (1.25mm)</td>
<td>Heat Sealed</td>
<td>6.25&quot; (16cm)</td>
<td>Polypropylene</td>
<td>2316-50</td>
<td>2316-1000</td>
</tr>
<tr>
<td></td>
<td><strong>Flexible Tip</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2317</td>
<td>0.1&quot; (2.5mm)</td>
<td>Heat Sealed</td>
<td>6.25&quot; (16cm)</td>
<td>Polypropylene</td>
<td>2317-50</td>
<td>2317-1000</td>
</tr>
</tbody>
</table>

**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.

**General Cleaning Brushes**

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

<table>
<thead>
<tr>
<th>FRONT VIEW</th>
<th>SIDE VIEW</th>
<th>Product</th>
<th>L Bristle Length</th>
<th>W Bristle Width</th>
<th>T Bristle Trim</th>
<th>Bristle Material</th>
<th>Handle Material</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2020-1</td>
<td></td>
<td>1.375&quot; (35mm)</td>
<td>0.25&quot; (6.4mm)</td>
<td>0.44&quot; (11mm)</td>
<td>Horse Hair</td>
<td>Wood</td>
<td>7.75&quot; (19.7cm)</td>
</tr>
<tr>
<td></td>
<td>2021-1</td>
<td></td>
<td>1.375&quot; (35mm)</td>
<td>0.25&quot; (6.4mm)</td>
<td>0.44&quot; (11mm)</td>
<td>Hog Bristle</td>
<td>Wood</td>
<td>7.75&quot; (19.7cm)</td>
</tr>
<tr>
<td></td>
<td>2022</td>
<td></td>
<td>2.125&quot; (54mm)</td>
<td>0.875&quot; (22mm)</td>
<td>0.75&quot; (19mm)</td>
<td>Hog Bristle</td>
<td>Wood</td>
<td>8.375&quot; (21.3cm)</td>
</tr>
<tr>
<td></td>
<td>2025-1</td>
<td></td>
<td>1.375&quot; (35mm)</td>
<td>0.25&quot; (6.4mm)</td>
<td>0.44&quot; (11mm)</td>
<td>Brass .003&quot; (0.08mm)</td>
<td>Wood</td>
<td>7.75&quot; (19.7cm)</td>
</tr>
<tr>
<td></td>
<td>2027-1</td>
<td></td>
<td>0.875&quot; (22mm)</td>
<td>0.375&quot; (9.5mm)</td>
<td>0.5&quot; (12.7mm)</td>
<td>Hog Bristle</td>
<td>Wood</td>
<td>4.94&quot; (12.5cm)</td>
</tr>
</tbody>
</table>
## Static Sensitive Brushes

Ideal for cleaning static sensitive electronics or components. Anodized aluminum falls withing the static dissipative range (10⁷ to 10¹⁰ ohms/square per ASTM D-257). Steel bristles are conductive, and horse hair is dissipative when saturated with solvent.

<table>
<thead>
<tr>
<th>Product</th>
<th>L Bristle Length</th>
<th>W Bristle Width</th>
<th>T Bristle Trim</th>
<th>Bristle Material</th>
<th>Handle Material</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2040-1</td>
<td>1.19&quot; (30.2mm)</td>
<td>0.125&quot; (3.2mm)</td>
<td>0.44&quot; (11.2mm)</td>
<td>Horse Hair</td>
<td>Anodized Aluminum</td>
<td>6.44&quot; (16.4cm)</td>
</tr>
<tr>
<td>2042-1</td>
<td>1.19&quot; (30.2mm)</td>
<td>0.375&quot; (9.5mm)</td>
<td>0.44&quot; (11.2mm)</td>
<td>Horse Hair</td>
<td>Anodized Aluminum</td>
<td>6.44&quot; (16.4cm)</td>
</tr>
<tr>
<td>2043-1</td>
<td>1.19&quot; (30.2mm)</td>
<td>0.375&quot; (9.5mm)</td>
<td>0.44&quot; (11.2mm)</td>
<td>Stainless Steel</td>
<td>.003&quot; (0.08mm)</td>
<td>6.44&quot; (16.4cm)</td>
</tr>
</tbody>
</table>

## Technical Brushes

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

<table>
<thead>
<tr>
<th>Product</th>
<th>L Bristle Length</th>
<th>W Bristle Width</th>
<th>T Bristle Trim</th>
<th>Bristle Material</th>
<th>Handle Material</th>
<th>Handle Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>2030-1</td>
<td>0.125&quot; (3.2mm)</td>
<td>0.0625&quot; (1.6mm)</td>
<td>0.125&quot; (3.2mm)</td>
<td>Goat Hair</td>
<td>Stainless Steel</td>
<td>3.5&quot; (8.9cm)</td>
</tr>
<tr>
<td>2031-1</td>
<td>0.25&quot; (6.4mm)</td>
<td>0.19&quot; (4.8mm)</td>
<td>A - 0.25&quot; (6.4mm)</td>
<td>Horse Hair</td>
<td>Stainless Steel</td>
<td>4.5&quot; (11.4cm)</td>
</tr>
<tr>
<td>2032-1</td>
<td>0.5&quot; (13mm)</td>
<td>0.375&quot; (9.5mm)</td>
<td>A - 0.19&quot; (4.8mm)</td>
<td>Horse Hair</td>
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