



### E-Line Flux Remover & Maintenance Cleaner 1621A-400S

#### Product Description

E-Line is a hydrocarbon based defluxer formulated to be powerful, yet very economical. Eliminates brushing and scrubbing, saving time and materials. Micro-components and fine pitch leads are delicate and easily damaged, so brushing and scrubbing should be avoided if possible. Techspray aerosol solvents have a powerful spray and strong solvent that blasts off residues and cleans areas under components that a brush cannot touch.

#### Features / Benefits

- Powerful cleaner
- Ideal for sensitive plastics
- Safe on electronics
- Rapid evaporation
- Zero residue
- Proven effective for lead-free processes
- Non-ozone depleting

#### Call-Outs / Specifications

- FORD TOX#142431 (on 1621 with HFC-152a)
- USDA Accepted K2 (on 1621 with HFC-152a)

#### Compatibility

| Chemical Composition |          |
|----------------------|----------|
| Chemical Name        | CAS#     |
| n-Heptane            | 142-82-5 |
| 2-Propanol           | 67-63-0  |
| Ethanol              | 64-17-5  |
| n-Propyl acetate     | 109-60-4 |
| Propane (R-290)      | 74-98-6  |
| Isobutane (R600a)    | 75-28-5  |

| Plastics & Rubber Compatibility |               |
|---------------------------------|---------------|
| Material Name                   | Compatibility |
| ABS:                            | Excellent     |
| Nylon:                          | Excellent     |
| Lexan:                          | Excellent     |
| HDPE:                           | Excellent     |
| LDPE:                           | Excellent     |
| C.E. Phenolic:                  | Excellent     |
| PMMA:                           | Excellent     |
| POM:                            | Excellent     |
| PP:                             | Excellent     |
| PS:                             | Excellent     |
| PTFE:                           | Excellent     |
| PVC:                            | Excellent     |



#### Typical Product Data and Physical Properties

|                               |                                 |
|-------------------------------|---------------------------------|
| <b>ODOR:</b>                  | Characteristic hydrocarbon odor |
| <b>Appearance:</b>            | Clear, Colorless liquid         |
| <b>Percent volatile:</b>      | 100 at 20°C (68°F)              |
| <b>Flashpoint and method:</b> | (22°F) TAG CC                   |
| <b>Solubility in water:</b>   | to 32 at 20°C (68°F)            |
| <b>Evaporation Rate:</b>      | > 1 (TCE=1)                     |
| <b>DENSITY:</b>               | 0.713g/mL at 25°C               |
| <b>VOC:</b>                   | Aerosol 100%                    |
| <b>Bulk 100%</b>              |                                 |

## E-Line Flux Remover & Maintenance Cleaner

### 1621A-400S

#### Usage Instructions

**FOR PROFESSIONAL OR INDUSTRIAL USE ONLY.** Disconnect equipment from power source. Hold can 6-8 inches away. When used as a general cleaner, start at top of area to be cleaned using a sweeping motion and spray the area, slowly working toward the bottom. To clean in hard to reach areas, insert extension tube in sprayhead.. Allow components to dry completely before applying current.

#### EU Packaging and Availability

|                   |                                            |
|-------------------|--------------------------------------------|
| <b>1621A-400S</b> | 400ml aerosol                              |
| <b>1621-4L</b>    | 1 gallon (3.8L) (request for availability) |

#### Environmental Policy

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

#### Resources

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# Eco-Vortex Ultra Pure Duster 1597-8S

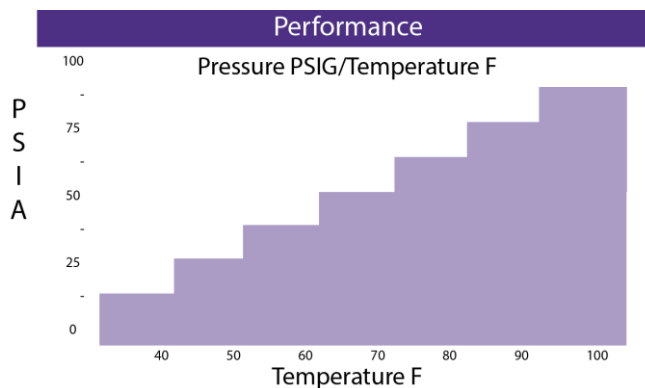
## Product Description

Renew Duster is formulated with new HFO-1234ze propellant, with a fraction of the global warming potential (GWP) of HFC-134a and HFC-152a based dusters. Renew-Duster is a drop-in replacement – nonflammable, odorless, has a low toxicity, and similar temperature.

Because HFO-1234ze is lighter than HFC-134a, there is more volume and blasts per can.

## Features / Benefits

- Nonflammable
- High pressure for particle removal and contamination control
- Useful for drying and removing solvents from surfaces
- Ultra-low global warming impact of 6
- Ultra-pure, filtered to <0.2 microns
- CFC, HCFC and HFC free
- Non-ozone depleting



## Usage Instructions

- For industrial use only.
- Read MSDS carefully prior to use

No special surface preparation is required prior to using the Renew Duster. Direct high pressure spray onto the area to be cleaned to remove dust, dirt and other contaminant. For optimum performance and pin point control, use with the attached extension tube.



## Typical Product Data and Physical Properties

|                                        |                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------|
| Boiling point                          | -2 °F / -19 °C                                                                        |
| Vapor Density (air=1)<br>@ 77°F        | 4.0                                                                                   |
| Solubility in Water<br>@ 70°F/1 atm    | 0.10% by weight                                                                       |
| Specific Gravity<br>(Water = 1 @ 77°F) | 1.17                                                                                  |
| Evaporation Rate<br>(Butyl acetate=1)  | >1                                                                                    |
| Appearance                             | Clear, Colorless, Liquified Gas                                                       |
| Odor                                   | Odorless                                                                              |
| Internal Pressure                      | 47 psia @ 70 °F                                                                       |
| Flash Point (TCC)                      | None                                                                                  |
| Shelf life                             | 5 years                                                                               |
| Global Warming Potential               | 6.0*                                                                                  |
| RoHS/WEEE<br>Status                    |  |

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

# Eco-Vortex Ultra Pure Duster 1597-8S

## Compatibility (cont.)

| Material Name    | Compatibility |
|------------------|---------------|
| Buna-N:          | Excellent     |
| Graphite:        | Excellent     |
| HDPE:            | Excellent     |
| LDPE             | Excellent     |
| Lexan            | Excellent     |
| Neoprene         | Excellent     |
| Cross-Linked PE  | Excellent     |
| Polyacrylate     | Excellent     |
| Polystyrene:     | Excellent     |
| PVC:             | Excellent     |
| Silicone Rubber: | Excellent     |
| Teflon           | Excellent     |
| Viton:           | Excellent     |

Renew Duster is generally compatible with most materials used in printed circuit board fabrication, including sensitive plastics and compounds. As with any duster/cleaner, compatibility must be determined on a non-critical area prior to use.

## Packaging and Availability

Renew Eco-Freezer is available in the following sizes:

**1597-8S**                      200ml aerosol

## Environmental Impact Data

Techspray® is committed to developing products to ensure a safer and cleaner environment. We will continue to meet and sustain the regulations of all federal, state and local government agencies.

| Environmental Impact Data |      |     |      |
|---------------------------|------|-----|------|
| CFC                       | 0.0% | VOC | 0.0% |
| HCFC                      | 0.0% | HFC | 0.0% |
| CL Solv.                  | 0.0% | ODP | 0.00 |

CFC, HCFC, CL. Solv., VOC and HFC numbers shown are the content by weight. Ozone depletion potential (ODP) is determined in accordance with the Montreal Protocol and U.S. Clean Air Act of 1990. The ODP of this product is 0.0. It is the sum of the ODP of the substances that may contribute to the depletion of stratospheric ozone, based upon the weight of each substance in the product's formulation. VOC consideration is based on the materials being not photo chemically reactive by Commonly Used Standards (material supplier).

## Resources

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### Zero Charge Mat & Table Top Cleaner Product# 1733

#### Product Description

Clean flux and other residues off of ESD-Safe mats and tabletops. Will not dry out surfaces (i.e. IPA) or leave insulative waxes (i.e. household cleaners).

#### Features / Benefits

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

#### Packaging and Availability

|         |                 |
|---------|-----------------|
| 1733-QT | 1 quart liquid  |
| 1733-G  | 1 gallon liquid |
| 1733-5G | 5 gallon liquid |

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#### Typical Product Data and Physical Properties

|                      |                 |
|----------------------|-----------------|
| Physical state:      | Liquid          |
| Odor:                | Pleasant        |
| Color:               | Light blue      |
| pH:                  | 7.2             |
| Percent volatile:    | 70              |
| Boiling point:       | 212°F (100°C)   |
| Solubility in water: | 100             |
| Specific gravity:    | 1.030 (water=1) |
| VOC:                 | 11.000 g/L      |
| Shelf life:          | 5 year unopened |



## Licron Crystal ESD-Safe Coating

Product# 1756

### Product Description

Licron Crystal™ is a revolutionary and innovative concept in permanent static dissipative coatings. It provides excellent adhesion to metals, glass, plastics, paints and most other surfaces. Licron Crystal operates from 0-100% humidity. The cured coating is durable, will not chip and maintains  $10^7$ - $10^9$  [make 7 and 9 superscript] ohms resistivity. Licron Crystal is crystal clear, unlike other static dissipative coatings (including the original Licron) that are translucent.

Licron Crystal can be sprayed using standard spray guns or paint systems (test compatibility on seals and other plastic or rubber components). As long as the coat is smooth and even, the finish is absolutely clear and glossy. A grounding wire can then be attached (i.e. by conductive adhesive) similar to an ESD floor.

### Features / Benefits

- 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.
- Coverage - 1 gallon @ 1 mil wet film will cover ~1600 sq. ft., @ 2 mil ~800 sq. ft.
- Non-ozone depleting

### Applications

- Electronic Assembly Work Stations, Bins, Carts, and Trays
- Electronic Assembly Work Enclosures, Including Plexi-Glass
- Packaging for Sensitive Components
- Production Conveyors & Bumpers
- Static Protection for Electronic Devices

### Usage Instructions

Surface to be coated should be dry and free of dirt, grease, and oils. Can and surface should be at room temperature. Shake can vigorously prior to spraying and re-shake occasionally during extended applications. Hold can 8-10 inches from surface. One to two light passes results in a clear coat within the resistivity range. Heavy application or spraying when humidity is over 50% RH may result in hazy coat. Allow to dry 24 hours at room temperature (70°F/21°C) for full cure. Accelerate cure by placing in oven at 120°-150°F for 1-2 hours. To ensure material compatibility, test on inconspicuous area before general use.



### Typical Product Data and Physical Properties

|                             |                             |
|-----------------------------|-----------------------------|
| Physical state:             | Liquid                      |
| Flash point:                | Closed cup: 53.2°F (11.7°C) |
| Auto-ignition temperature:  | 852.8°F (456°C)             |
| Flammable limits:           | Lower 2%<br>Upper 12%       |
| Color:                      | Colorless                   |
| Odor:                       | Alcohol-like                |
| pH:                         | 8.5                         |
| Boiling/condensation point: | 181.4°F (83°C)              |
| Melting/freezing point:     | -130°F (-90°C)              |
| Relative density:           | 0.79                        |
| Vapor pressure:             | 4.4 kPa (33 mmHg)           |
| Vapor density:              | 2.1 [Air=1]                 |
| Evaporation rate:           | <1 (Water=1)                |
| Shelf life:                 | 5 years unopened            |

## Licron Crystal ESD-Safe Coating

### Product# 1756

#### Test Data

##### Chemical Resistivity/Compatibility Test

Coating = 2 mil wet (~0.2 mil dry) on PMMA. 1 drop/time/30-sec DI rinse

| MATERIAL                                 | 1-Minutes Results          | 5- Minutes Results      | 10- Minutes Results           |
|------------------------------------------|----------------------------|-------------------------|-------------------------------|
| DI Water (control)                       | None                       | None                    | None                          |
| 70% IPA                                  | Light haze, coating intact | Haze, coating intact    | Discoloration, coating intact |
| 50% Ethanol                              | Light haze, coating intact | Haze, coating intact    | Discoloration, coating intact |
| 1:1 Clorox                               | None                       | None                    | None                          |
| Dowanol DPM                              | Haze, coating intact       | Partial dissolution     | Total dissolution             |
| Tetrahydrofuran (THF)                    | Haze, light crazed coating | Haze, coating intact    | Bleached, crazed coating      |
| n-propyl acetate                         | Haze, coating intact       | Slight dissolution      | Slight dissolution            |
| Parson's Sol'n (1.4% NH <sub>4</sub> OH) | None                       | None                    | None                          |
| 5% Acetic acid                           | None                       | None                    | None                          |
| 409 Pro                                  | None                       | None                    | None                          |
| Pine-Sol Lemon                           | Very light haze, intact    | Very light haze, intact | Slight haze, coating intact   |
| Windex                                   | Very light haze, intact    | Very light haze, intact | Deep haze, coating intact     |
| Coca-Cola                                | None                       | None                    | None                          |
| Mustard                                  | None                       | None                    | None                          |
| Acetone                                  | Haze, softened coating     | Haze, softened coating  | Softened, bubbled coating     |
| d-Limonene                               | None                       | None                    | Slight haze, coating intact   |
| Palmolive Ultra dish detergent           | None                       | None                    | None                          |

##### Substrate Compatibility Test

ASTM D3359 Mtd B Adhesion Test

Bulk coating = 2 mil wet (~0.2 MIL DRY), cured at RT 12 hrs & heat cured @ 65°C/5 min

| Material    | Testing Results |
|-------------|-----------------|
| ABS smooth  | 4B              |
| Nylon 6     | 5B              |
| Nylon 6/6   | 4B              |
| PC (Lexan)  | 5B              |
| HDPE        | 5B              |
| LDPE        | 4B              |
| Phenolic CE | 5B              |
| PMMA        | 5B              |
| POM         | 0B              |
| PP          | 4B              |
| PS          | 0B              |
| PTFE        | 0B              |
| PVC-P       | 4B              |
| PVC-R       | 4B              |
| Glass       | 4B              |

Not recommended

Not recommended

Not recommended

#### Test Data (cont.)

##### Substrate Compatibility Test (cont.)

| Key | 100 square 1mm grid                                            |
|-----|----------------------------------------------------------------|
| 0B  | 65%+                                                           |
| 1B  | Flaked along edges in large ribbons & whole squares, 35-65%    |
| 2B  | Flaked along edges and parts of squares, 15-35%                |
| 3B  | Small flakes are detached along edges and intersections, 5-15% |
| 4B  | Small flakes are detached at intersections, <5%                |
| 5B  | No square of the lattice are detached                          |

#### Packaging and Availability

**1756-8S** 8 oz. Aerosol

**1756-G** 1 gallon liquid

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## WonderMASK P Peelable Solder Mask

### Product# 2211

#### Product Description

WonderMASK P is a temporary, peel-able solder mask comprised of a thixotropic, synthetic acrylic latex designed to withstand fluxing, wave soldering and cleaning operations. Unlike natural latex mask, it contains no offensive ammonia and hence is non-corrosive to copper, gold, silver or pre-soldered surfaces. In addition, stability problems are averted. When applied, the product is opaque pink, and when cured, becomes completely translucent red. Cured mask can be used for masking conformal coatings. May be used in applications such as robotic, pneumatic, hand applied or template screening (not recommended for silk screening).

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.

WonderMASK has a number of useful applications in PCB assembly:

- Thru-hole masking – Prevent soldering open holes in a wave soldering process by covering with WonderMASK. All of the masks listed below are well suited for this application.
- Conformal coating masking – In a conformal coating dipping or spraying process, WonderMASK can be used to cover connectors and other components and areas that should not be coated.
- Temporary component adhesive – WonderMASK can be used to tack down components on double-sided PCBs.

All Techspray WonderMASK products have the following advantages:

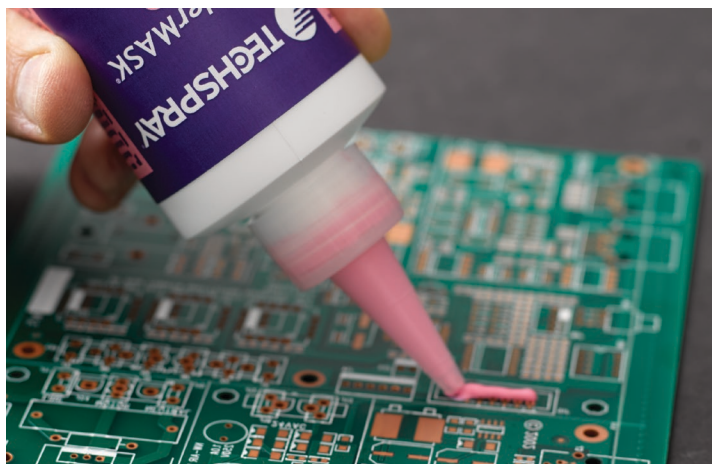
- Can be cured in pre-heat
- Withstands lead-free soldering temperatures up to 640°F (343°C) in wave soldering process
- RoHS compliant

#### Features / Benefits

- Non-ammoniated
- Nonflammable
- Easily peel-able
- Low odor
- Cure indicator - darkens as it cures
- Compatible with gold and copper leads

#### Usage Instructions

Apply a 20 to 30 mil coating for best results to desired area. The substrate should be free from flux, oil, and particulate matter. Drying times depend upon ambient humidity. Under normal conditions WonderMASK P is ready for preheating stage in 1 hour, however, cure can be accelerated to 30 minutes at 65°C/150°F or 20 minutes at 82°C/180°F. Do not over cure, as blistering of mask can occur, causing removal problems. Mask will change from an opaque pink to a translucent red when complete cure is accomplished. Mask does not have to be completely dry to withstand soldering operation; however, it should be completely translucent before removal.



#### Typical Product Data and Physical Properties

|                   |          |
|-------------------|----------|
| Physical state:   | Liquid   |
| Color:            | Pink/red |
| Relative density: | 1        |
| Shelf life:       | 2 years  |

#### Performance & Application Data

|                     |                                               |
|---------------------|-----------------------------------------------|
| Application         | Template, hand, pneumatic, robotic            |
| Viscosity           | 28,000-30,000 cps                             |
| Suggested thickness | 20-30 mils                                    |
| Thinner             | DI water                                      |
| Cure time           | 1hr. Ambient, 30 min. @65°C,<br>20 min. @82°C |
| Removal             | Peel-able                                     |

## WonderMASK P Peelable Solder Mask

**Product# 2211**

### Packaging and Availability

|                 |                  |
|-----------------|------------------|
| <b>2211-8SQ</b> | 8 oz. Liquid     |
| <b>2211-G</b>   | 1 Gallon Liquid  |
| <b>2211-5G</b>  | 5 Gallon Liquid  |
| <b>2211-54G</b> | 54 Gallon Liquid |

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## Techspray Reinigungsstäbchen

- Einfache punktuelle Reinigung
- Hohe Saugfähigkeit
- Fusselfreie Variante möglich
- Trocken oder in Verbindung mit einem Reiniger anwendbar



Die Serie umfasst die folgenden Stäbchen:

| Produkt                                                                              | Spitzen-Breite | Spitzen-Befestigung | Griff-Länge | Griff-Material | Beutel  | Beutel    |
|--------------------------------------------------------------------------------------|----------------|---------------------|-------------|----------------|---------|-----------|
| 2300                                                                                 | 4,8 mm         | Gewickelt           | 15,2 cm     | Holz           | ---     | 2300-1000 |
|    |                |                     |             |                |         |           |
| 2301                                                                                 | 4,8 mm         | Gewickelt           | 15,2 cm     | Holz           | ---     | 2301-1000 |
|    |                |                     |             |                |         |           |
| 2302                                                                                 | 11,1 mm        | Heißversiegelt      | 15,2 cm     | Polypropylen   | 2302-50 | ---       |
|   |                |                     |             |                |         |           |
| 2303                                                                                 | 6,4 mm         | Heißversiegelt      | 15,2 cm     | Polypropylen   | 2303-50 | ---       |
|  |                |                     |             |                |         |           |
| 2306                                                                                 | 12,7 mm        | Heißversiegelt      | 12,7 cm     | Polypropylen   | 2306-50 | 2306-1000 |
|  |                |                     |             |                |         |           |
| 2307                                                                                 | 4,8 mm         | Heißversiegelt      | 10,2 cm     | Polypropylen   | 2307-50 | 2307-1000 |
|  |                |                     |             |                |         |           |
| 2313                                                                                 | 3,2 mm         | Gewickelt           | 8,3 cm      | Papier         | 2313-30 | ---       |
|  |                |                     |             |                |         |           |
| 2316                                                                                 | 1,25 mm        | Heißversiegelt      | 15,9 cm     | Polypropylen   | 2316-50 | 2316-1000 |
|  |                |                     |             |                |         |           |
| 2317                                                                                 | 2,5 mm         | Heißversiegelt      | 15,9 cm     | Polypropylen   | 2317-50 | ---       |
|  |                |                     |             |                |         |           |

## Techspray Reinigungstücher

- Hohe Saugfähigkeit
- Fusselfrei (außer 2357)
- Trocken oder in Verbindung mit einem Reiniger anwendbar
- ESD Variante (2362)

Die Serie umfasst die folgenden Tücher:



### Techclean Wiper 2350

Beschreibung: Zellulose/Polyester Vlies

#### Eigenschaften:

Speziell für Reinraumanwendungen entwickeltes Tuch. Sehr saugfähig, enthält keine chemischen oder thermischen Binder, nicht abrasiv, hohe Reißbeständigkeit im trockenen und nassen Zustand, Lösungsmittelbeständig und fusselfrei.

Klasse 100 Reinraum qualifiziert.

#### Anwendungen:

Reinraumanwendungen, Reinigung in Verbindung mit Lösungsmitteln oder wässrigen Systemen, Lösung starker Verschmutzungen, Anti-Statik Anwendungen.

#### Lieferform:

2350-100: 100 Tücher, 203 x 254 mm, im Anti-Statik-Beutel, VPE= 12 Beutel



### Techclean Absorbwipe 2351 & 2352

Beschreibung: 100% Polyester

#### Eigenschaften:

Sehr weiches und saugfähiges Tuch für die Reinigung im trockenen und nassen Zustand, Lösungsmittelbeständig, fusselfrei, lange haltbar.

Klasse 100 Reinraum qualifiziert.

#### Anwendungen:

Reinraumanwendungen, Optische Industrie, Reinigung empfindlicher Oberflächen in Verbindung mit Lösungsmitteln oder wässrigen Systemen.

#### Lieferform:

2351-100: 100 Tücher, 100 x 100 mm, im Anti-Statik-Beutel, VPE= 12 Beutel

2352-100: 100 Tücher, 230 x 230 mm, im Anti-Statik-Beutel, VPE= 12 Beutel



### Techclean Purewipe 2355

Beschreibung: 100% Polyester Filamentgewebe, ineinandergreifend verstrickt

#### Eigenschaften:

Sehr strapazierfähiges Tuch speziell für starke Verschmutzungen sehr hohe Reißbeständigkeit im trockenen und nassen Zustand, Lösungsmittelbeständig, fusselfrei, lange haltbar.

#### Anwendungen:

Reinigung rauher Oberflächen in Verbindung mit Lösungsmitteln oder wässrigen Systemen, Reinraumanwendungen.

#### Lieferform:

2355-100: 100 Tücher, 228 x 228 mm, im Anti-Statik-Beutel, VPE= 12 Beutel



#### Was gibt es bei ...

Isolier-, Schutz- und Schrumpfschläuche • Elektrisch und thermisch isolierende Stoffe • Produktionshilfsmittel- und Zubehör • Kabel, Litzen und Wickeldrähte • Keramik Zemente • Wärmeleitfolien

### **Techclean Twillwipe 2357**

Beschreibung: 100% Baumwollgewebe in Köperbindung

#### **Eigenschaften:**

Sehr strapazierfähiges Tuch speziell für starke Verschmutzungen, bei hohen Temperaturen, säurebeständig, sehr hohe Reißbeständigkeit im trockenen und nassen Zustand, lösungsmittelbeständig, lange haltbar, diagonal geschnitten um Ausfaserung zu verhindern.

#### **Anwendungen:**

Reinigung rauher Oberflächen in Verbindung mit Lösungsmitteln oder wässrigen Systemen, Anti-Statik-Anwendungen, bei hohen Temperaturen.

#### **Lieferform:**

2357-100: 100 Tücher, 152 x 152 mm, im Anti-Statik-Beutel, VPE= 12 Beutel



### **Techclean Blue 2359**

Beschreibung: Zellulose/Polyester Vlies, blau, stumpfe Oberfläche

#### **Eigenschaften:**

Speziell für Reinraumanwendungen entwickeltes Tuch. Sehr saugfähig, enthält keine chemischen oder thermischen Binder, nicht abrasiv, hohe Reißbeständigkeit im trockenen und nassen Zustand, lösungsmittelbeständig und fusselfrei. Das Tuch entspricht der Type 2350, hat allerdings eine Oberfläche, die sich leicht klebrig, stumpf anfühlt.

#### **Anwendungen:**

Reinraumanwendungen, Reinigung in Verbindung mit Lösungsmitteln oder wässrigen Systemen, Lösung starker Verschmutzungen, Anti-Statik Anwendungen.

#### **Lieferform:**

2359-300: 100 Tücher, 228 x 228 mm, im Anti-Statik-Beutel, VPE= 6 Beutel



### **Techclean Anti Static Wipe 2362**

Beschreibung: Polyestertuch

#### **Eigenschaften:**

Speziell für ESD-Anwendungen entwickeltes Tuch. Antistatisch, hohe Reißbeständigkeit im trockenen und nassen Zustand, sehr niedriger Teilchengehalt.

Klasse 100 Reinraum qualifiziert.

#### **Anwendungen:**

Reinraumanwendungen, Reinigung in Verbindung mit Lösungsmitteln oder wässrigen Systemen, Anti-Statik Anwendungen.

#### **Lieferform:**

2362-150: 100 Tücher, 230 x 230 mm, im Anti-Statik-Beutel, VPE= 6 Beutel



#### **Was gibt es bei ...**

Isolier-, Schutz- und Schrumpfschläuche • Elektrisch und thermisch isolierende Stoffe • Produktionshilfsmittel- und Zubehör • Kabel, Litzen und Wickeldrähte • Keramik Zemente • Wärmeleitfolien



## Techspray Entlötlitzen

### Pro-Wick Rosin - ESD-sichere Spule

Für sehr schnelles Aufsaugen ist eine mit Harzmittel getränkte Litze ideal für die hochvolumige PCB-Produktion/-Reparatur



|      |                 |         |          |          |   |           |
|------|-----------------|---------|----------|----------|---|-----------|
| 1808 | #0 Weiß (0,9mm) | 1808-5F | 1808-10F | -        | - | 1808-100F |
| 1809 | #1 Gelb (1,4mm) | 1809-5F | 1809-10F | 1809-25F | - | -         |
| 1810 | #2 Grün (1,9mm) | 1810-5F | 1810-10F | 1810-25F | - | 1810-100F |
| 1811 | #3 Blau (2,5mm) | 1811-5F | 1811-10F | 1811-25F | - | 1811-100F |
| 1812 | #4 Braun(3,3mm) | 1812-5F | -        | -        | - | -         |

### No-Clean-Litze - ESD-sichere Spule

Die sauberste No-Clean-Litze in der Branche. Unsere Flussmittelformel wurde speziell dafür entwickelt Leiterplattenversagen durch ionische Flussmittelmittelrückstände zu vermeiden.



|      |                 |         |          |          |          |           |
|------|-----------------|---------|----------|----------|----------|-----------|
| 1820 | #0 Weiß (0,9mm) | 1820-5F | 1820-10F | -        | 1820-50F | -         |
| 1821 | #1 Gelb (1,4mm) | 1821-5F | 1821-10F | 1821-25F | 1821-50F | -         |
| 1822 | #2 Grün (1,9mm) | 1822-5F | 1822-10F | -        | 1822-50F | 1822-100F |
| 1823 | #3 Blau (2,5mm) | 1823-5F | 1823-10F | 1823-25F | -        | 1823-100F |
| 1824 | #4 Braun(3,3mm) | 1824-5F | -        | 1824-25F | -        | -         |
| 1825 | #5 Rot (4,9mm)  | 1825-5F | -        | -        | -        | -         |

### Litze ohne Flussmittel - ESD-sichere Spule

Für Kunden, die wasserlösliche Flussmittel oder ihre eigenen Flussmittel für wässrige Verfahren verwenden.



|      |                 |   |          |   |   |   |
|------|-----------------|---|----------|---|---|---|
| 1830 | #1 Weiß (0,9mm) | - | 1830-10F | - | - | - |
| 1833 | #2 Blau (2,5mm) | - | 1833-10F | - | - | - |



# Produktübersicht

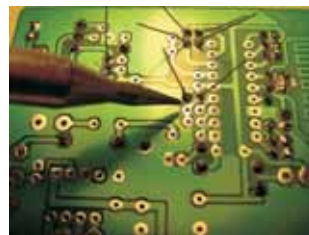
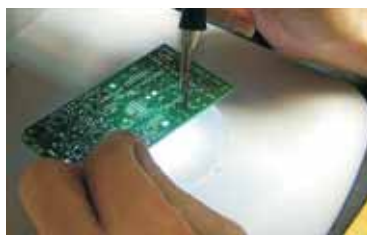
- Lötspitzen
- Platoscheren
- Lötspitzenverzinner



Hans-Herbert von Saenger  
**Isolier- und Messtechnik GmbH & Co KG**



Lötspitzen und Scheren für die Elektro- und Elektronikindustrie



## C-Serie (Weller)

| Weller® | Plato® Tip |             |
|---------|------------|-------------|
| PTA     | C-3039     | 1/16" (1.6) |
| PTB     | C-3040     | 3/32" (2.4) |
| PTC     | C-3036     | 1/8" (3.2)  |
| PTD     | C-1016     | 3/16" (4.8) |
| PTE     | C-1017     | 7/32" (5.6) |
| PTK     | C-3043     | 3/64" (1.2) |

| Weller® | Plato® Tip |             |
|---------|------------|-------------|
| PTP     | C-462      | 1/32" (0.8) |
| PTR     | C-1021     | 1/16" (1.6) |
| PTAA    | C-5139     | 1/16" (1.6) |
| PTBB    | C-5143     | 3/32" (2.4) |
| PTCC    | C-5141     | 1/8" (3.2)  |
| PTDD    | C-5142     | 3/16" (4.8) |

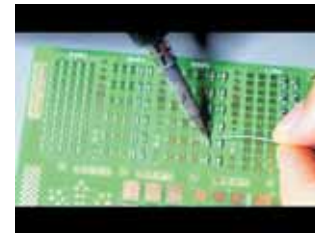
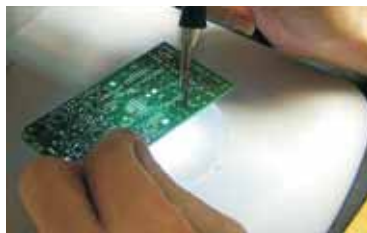
## ER-Serie (Ersa) DX-Serie (Weller)

| Weller® | Plato® Tip |             |
|---------|------------|-------------|
| MPT-1   | DX-4771    | .012" (0.3) |
| MPT-1S  | DX-4814    | .012" (0.3) |

| Weller® | Plato® Tip |                         |
|---------|------------|-------------------------|
| MPT-H   | DX-2683    | 1/32" (0.8) .024" (0.6) |
|         | DX-4977    | .016" (0.4)             |

| Ersa® | Plato® Tip |             |
|-------|------------|-------------|
| 8020D | ER-2675    | .085" (2.2) |
| 802ED | ER-2676    | .125" (3.2) |
| 832CD | ER-3908    | .095" (2.2) |

| Ersa® | Plato® Tip |             |
|-------|------------|-------------|
| 832ED | ER-3101    | .126" (3.2) |
| 832UD | ER-4005    | .016" (0.4) |
| 832BD | ER-4002    | .040" (1.0) |



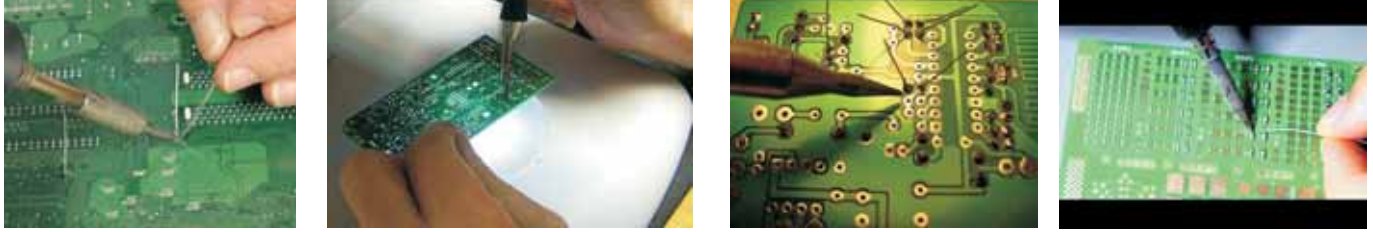
## EW-Serie (Weller)

| Weller® | Plato® Tip |  |
|---------|------------|--|
| ETA     | EW-303     |  |
| ETB     | EW-305     |  |
| ETC     | EW-307     |  |
| ETD     | EW-103     |  |
| ETE     | EW-105     |  |
| ETGW    | EW-0574    |  |
| ETH     | EW-301     |  |
| ETK     | EW-304     |  |
| ETL     | EW-306     |  |
| ETM     | EW-308     |  |

| Weller® | Plato® Tip |  |
|---------|------------|--|
| ETO     | EW-404     |  |
| ETP     | EW-403     |  |
| ETR     | EW-101     |  |
| ETS     | EW-402     |  |
| ETT     | EW-401     |  |
| ETV     | EW-511     |  |
| ETAA    | EW-513     |  |
| ETBB    | EW-515     |  |
| ETCC    | EW-517     |  |

## HS-Serie (Hakko)

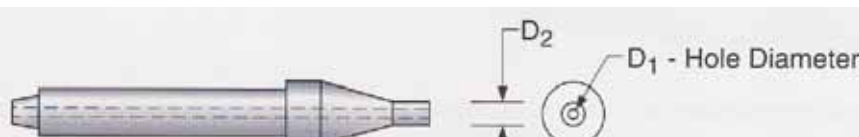
| Hakko®    | Plato® Tip |  |
|-----------|------------|--|
| 900M-T-4C | HS-5875    |  |
| 900M-T-LB | HS-4786    |  |
| 900M-T-K  | HS-0927    |  |



## 20-Series (Pace)

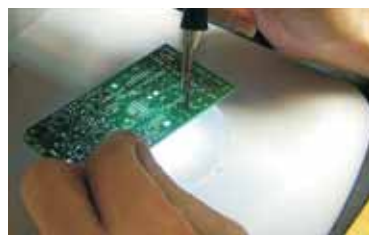
| Pace®                                                                                                     | Plato®  | L            | D1          | D2          | Plato® Tip                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------|---------|--------------|-------------|-------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Plato® Tips to fit Pace® SX-20, SX-25, SX-25V SODR-X-TRACTORS®</b>                                     |         |              |             |             |                                                                                                                              |
| 1121-0480                                                                                                 | 20-0114 | 1.00" (25.4) | .030" (0.8) | .060" (1.5) |  <p>1/8" (3.2)</p> <p>NOT ACTUAL SIZE.</p> |
| —                                                                                                         | 20-0815 | 1.00" (25.4) | .036" (0.9) | .065" (1.7) |                                                                                                                              |
| 1121-0479                                                                                                 | 20-0110 | 1.00" (25.4) | .040" (1.0) | .080" (2.0) |                                                                                                                              |
| 1121-0216                                                                                                 | 20-0113 | 1.00" (25.4) | .050" (1.3) | .090" (2.3) |                                                                                                                              |
| 1121-0217                                                                                                 | 20-0111 | 1.00" (25.4) | .060" (1.5) | .100" (2.5) |                                                                                                                              |
| Pace®                                                                                                     | Plato®  | L            | D1          | D2          |                                                                                                                              |
| <b>Plato® Tips to fit Pace® SX-40A, SX-55A, SX-65A, SX-70 SODR-X-TRACTORS® with Plato Adapter 33-0001</b> |         |              |             |             |                                                                                                                              |
| 1121-0485                                                                                                 | 20-025  | 1.75" (44.5) | .030" (0.8) | .080" (2.0) |                                                                                                                              |
| 1121-0486                                                                                                 | 20-040  | 1.75" (44.5) | .040" (1.0) | .080" (2.0) |                                                                                                                              |
| —                                                                                                         | 20-050  | 1.75" (44.5) | .050" (1.3) | .090" (2.3) |                                                                                                                              |
| 1121-0255                                                                                                 | 20-060  | 1.75" (44.5) | .060" (1.5) | .100" (2.5) |                                                                                                                              |

## 30-Series (Pace)

| Pace®     | Plato®  | ID          | OD          |                                                                                                  |
|-----------|---------|-------------|-------------|--------------------------------------------------------------------------------------------------|
| 1121-0624 | 30-0401 | .040"       | .090"       |  <p>NEW!</p> |
| 1121-0626 | 30-0601 | .060"       | .120"       |                                                                                                  |
| 1121-0629 | 30-1004 | .040"       | .10"        |  <p>NEW!</p> |
| 1121-0679 | 30-1400 | .040"       | .090"       |  <p>NEW!</p> |
| 1121-0690 | 30-1600 | .060"       | .110"       |                                                                                                  |
| Pace®     | Plato®  | D1 (mm)     | D2          |                                                                                                  |
| 1121-0342 | 30-0400 | .040" (1.0) | .085" (2.2) |              |
| 1121-0368 | 30-0600 | .060" (1.5) | .115" (2.9) |                                                                                                  |

## 33-Series (Pace)

| Pace®     | Plato® Tip |             | Pace®     | Plato® Tip |                          |
|-----------|------------|-------------|-----------|------------|--------------------------|
| 1121-0335 | 33-6055    | 1/16" (1.5) | 1121-0360 | 33-6057    | 3/32" (2.4)              |
| 1121-0336 | 33-8142    | 1/32" (0.8) | 1121-0363 | 33-8143    | .020" (0.5)              |
| 1121-0337 | 33-6058    | 1/8" (3.2)  | 1121-0414 | 33-6056    | 1/16" (1.5)              |
| 1121-0357 | 33-8141    | 1/64" (0.4) | 1121-0490 | 33-5895    | .195" (5.0), .135" (3.4) |



# MS-Serie (Weller)

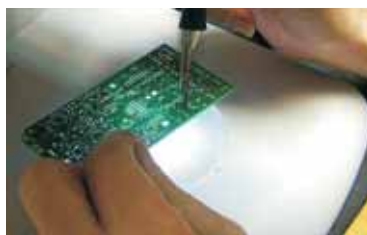
| Weller® | Plato® Tip |
|---------|------------|
| —       | MS-4140    |
| LT1     | MS-4120    |
| LT1L    | MS-4110    |
| LT1LX   | MS-4101    |
| LT1S    | MS-4100    |
| LT4W    | MS-5160    |
| LT4X    | MS-3125    |
| LTA     | MS-3200    |
| LTB     | MS-3300    |

| Weller® | Plato® Tip |
|---------|------------|
| LTC     | MS-3400    |
| LTD     | MS-3600    |
| LTGW    | MS-0100    |
| LTH     | MS-3110    |
| LTHX    | MS-3101    |
| LTK     | MS-3150    |
| LTL     | MS-3250    |
| LTM     | MS-3450    |
| LTS     | MS-4130    |



Wenn Sie weitere Hilfs- und Reinigungsmittel für die Elektro- und Elektronikindustrie benötigen fordern Sie einfach unsere

 **TECHSPRAY®** Produktübersicht an.



## Platoschere

### 170 Platoschere

Schneidet Kupferdrähte bis Ø 1,0 mm, Gewicht 51 g, Zangenlänge 131 mm

### 175 Platoschere

Wie Platoschere 170, jedoch mit Haltefeder für abgeschnittene Drahtenden



### 170LX Platoschere

Schneidet Kupferdrähte bis Ø 1,0 mm, Gewicht 51 g, Zangenlänge 131 mm mit ERGO-Griff



### 170-SD Platoschere

Wie Platoschere 170 jedoch mit ableitenden Griffüberzug



### 1755 Platoschere

Schneidet Kupferdrähte bis max. Ø 1,6 mm, Gewicht 71 g, Zangenlänge 148 mm



## Lötspitzenverzinne

### TT-95 Lötspitzenverzinne 20g

Oxydierte und verschmutzte Lötspitzen werden durch diesen Lötspitzenreiniger gleichzeitig gereinigt und verzinnt. Temperaturstabil und in ESD-sicherer Verpackung



Vor Anwendung



Nach Anwendung

**DETAKTA**

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