Chemtronics®

PRODUCT CATALOG

V3.0

Engineered for Every Critical Environment - Mission-Critical Cleaning Solutions Across Avionics, Aerospace, Medical & Electronics Assembly

Superior products for electronic prototyping, assembly & maintenance

Trusted by MRO leaders, OEMs, & med device manufacturers

A Division of ITW

MANUFACTURING FACILITIES

ABOUT US

ITW (Illinois Tool Works) is a Fortune 300 global multi-industrial manufacturing leader with revenue of $16.49 billion in 2025. The company's seven industry-leading segments leverage the unique ITW Business Model to drive solid growth with best-in-class margins and returns in markets where highly innovative, customer-focused solutions are required. ITW's approximately 44,000 dedicated colleagues around the world thrive in the company's decentralized and entrepreneurial culture.

Chemtronics® Chemtronics has been at the forefront of electronics maintenance and repair for more than 60 years, where we have been creating and innovating solutions for our market and partners. Since 1999, we have been a wholly owned subsidiary of Illinois Tool Works Inc. (ITW).

Chemtronics is a manufacturer and designer of cleaning and repair products for the electronic market. Our product offering has grown from a handful of cleaners to a complete line of ultra-pure solvents, degreasers, swabs, wipes, and repair tools for the electrical, electronics and telecommunications industries.

TECHSPRAY® Techspray introduced its first product almost 60 years ago and since then has maintained an industry leadership position for producing effective and safe products. Since 2006, we have been a wholly owned subsidiary of Illinois Tool Works Inc. (ITW).

Techspray formulates, blends, and packages a wide variety of chemicals and assorted support products used in electronics manufacturing, industrial maintenance, and plant operations, including degreasers, defluxers, conformal coating, dusters and water-based cleaners.

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Our laboratory is the engine behind every high-performance product we produce. From initial concept through final validation, every product is engineered in a controlled environment where quality isn't just measured—it's built in from the ground up.

What sets our lab apart is the combination of advanced capabilities and real-world application focus. We don't just create chemicals; we solve cleaning challenges. Our team continuously innovates to improve performance, reduce environmental impact, and ensure consistency across every batch. The result is a portfolio of premium products trusted by professionals who demand reliability, effectiveness, and uncompromising quality.

STATE-OF-THE-ART CHEMISTRY LAB

Electro-Wash® High Purity Solvents are the most effective products made for critical cleaning and degreasing. Each cleaner is engineered for specific applications — from precision cleaning of sensitive equipment to heavy duty degreasing. Electro-Wash® cleaner degreasers clean a wide variety of oil, grease, oxides and handling contaminants from equipment and assemblies.

Electro-Wash® QD

Fast drying, nonflammable electronics cleaner degreaser

- Nonflammable, no chlorocarbons
- Excellent material compatibility
- Displaces moisture
- Evaporates fast, minimizes downtime
- NSF registered K1 and K2
- All-Way Spray aerosol

DEL1608B	12 oz / 340 g BrushClean™ System

DEL1608B

ES6100

ES6119

Electro-Wash® VZ

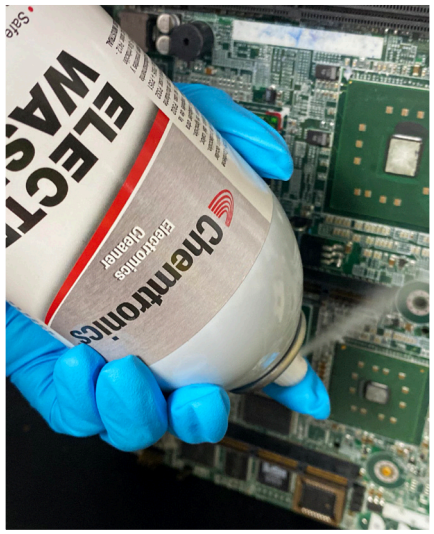
Economical, non-ozone depleting, nonflammable universal cleaner degreaser

- Nonflammable
- One cleaner for all soil types
- Low odor
- Evaporates quickly without leaving residue
- Penetrates to clean hard to reach areas
- All-Way Spray

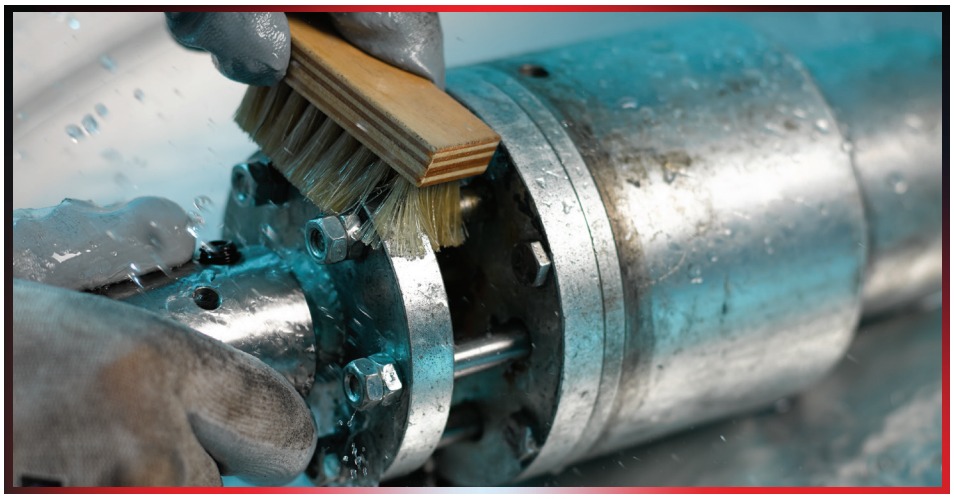
ES6100	12 oz / 340 g aerosol
ES6119	19 oz / 538 g aerosol

All-Way Spray

Chemtronics aerosol products (where indicated) can spray even when rotated to clean hard-to-reach places.



VVV114 *VVV5514*



Electro-Wash® Tri-V

Extra-strength, nonflammable electronics cleaner degreaser for replacing n-propyl bromide

- Nonflammable
- Can be used on energized equipment
- Fast drying
- Does not contain n-propyl bromide, trichloroethylene, or perchloroethylene
- NSF registered K1 and K2

VVV114	1 gal / 3.7 L liquid
VVV514	5 gal / 19 L liquid
VVV5514	53 gallons / 200 L liquid

Electro-Wash® Delta

Extra-strength, nonflammable electronics cleaner degreaser

- Nonflammable
- Best AK225 replacement chemistry
- Fast drying
- Contains no ozone depleting compounds, low VOC's
- NSF registered K1 and K2

DEL101	1 gal / 3.7 L liquid

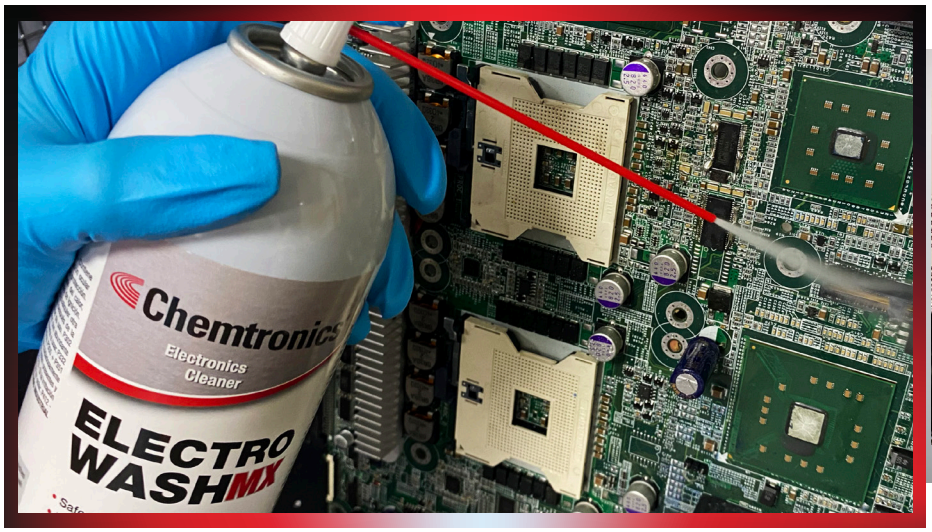
DEL101

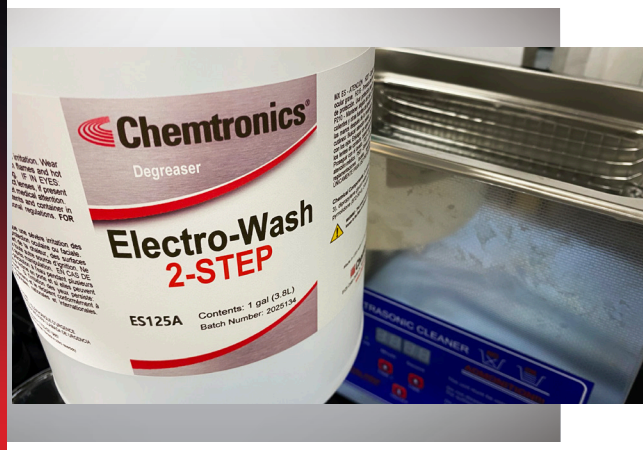
Product Selection Guide

Cleaner Degreasers		Features: Plastic Safe	Nonflammable	No Ozone Depleting Chemicals	Dries Fast	Dielectric Breakdown (Aerosol)	VOC-EPA (Aerosol / Liquid)	Cleaning Ability: Grease	Oil	Ionic Soils	Cleaning Methods: Aerosol Spray	Vapor Degreasing	Ultrasonics	Hot Immersion	Cold Immersion
Electro-Wash Tri-V	VVV114/VVV514/ VVV5514	NR	✓	✓	✓	21kV	NA / 95%	1	1	2		✓	✓		✓
Electro-Wash Delta	DEL101	2	✓	✓	✓	31kV	NA / 85%	2	1	2			✓		✓
Electro-Wash NXO	ES1607	3	✓	✓	✓	15kV	38% / NA	1	1	2	✓				
Electro-Wash QD	DEL1608B	2	✓	✓	✓	11kV	0% / NA	3	1	2	✓				
Electro-Wash VZ	ES6100/ES6119	2	✓	✓	✓	17kV	19% / NA	3	1	2	✓		✓		✓
Electro-Wash PX	ES810/ES1210/ ES110	1		✓	✓		75% / NA	1	1	1	✓				✓
Electro-Wash MX	ES1621/CP421/FW2150/ FW2150BLK	1		✓			NA / 100%	1	1	1	✓				
Electro-Wash PR	ES1603	1		✓	✓		75% / NA	1	1	-	✓				
Electro-Wash CZ	ES7100	1	✓	✓	✓	17kV	13% / 28%	3	2	2	✓				
Electro-Wash Two Step*	ES125A	NR	✓	✓			NA / 100%	1	1	1			✓	✓	✓
Industrial Degreasers															
Max-Kleen Tri-V	VVV179/VVV2279/ VVV579/VVV5579	NR	✓	✓	✓	8kV	24.1% / 90%	1	1	2	✓	✓	✓		✓
Max-Kleen Citrus	ES2289/ES5589/ES589	1	✓	✓		62kV	100% / 100%	2	2	2	✓		✓	✓	✓
Flux-Off Tri-V	VVV595/VVV5595	NR	✓	✓	✓	23.7kV	95% / 95%	1	1	2		✓	✓		

Cleaning Methods: Strongest Cleaner → Most Plastic-Safe

* Plastic safety rated at room temperature 1 – Excellent 2 – Good 3 – Fair NR – Not Recommended





ES1621

Electro-Wash® MX

Extra-strength, plastic safe universal cleaner with moderate evaporation time

- Safe on plastics
- Flammable
- Extra cleaning strength
- Moderate evaporation rate increases cleaning power
- Leaves no residue
- Removes organic and ionic soils
- All-Way Spray aerosol

BEST SELLER

ES1621	10 oz. / 283 g. aerosol
CP421	25 - 8" x 10" / 20.3 cm x 25.4 cm premoistened wipes (9 ml each wipe)
FW2150	9 g. / 0.32 oz. pen
FW2150BLK	9 g. / 0.32 oz. pen (no blister card) Min. Order - 3 Cases (24 pens per case)

ES1607

Electro-Wash® NXO

Extra-strength, nonflammable cleaner degreaser

- Nonflammable
- Extra cleaning strength
- Dries fast
- Leaves no residue
- Test on plastics
- All-Way Spray aerosol

ES1607	12 oz / 340 g aerosol

ES7100

Electro-Wash® CZ

Non-ozone depleting, nonflammable cleaner degreaser safe for use on plastics

- Safe on plastics
- Nonflammable
- Dries fast
- Leaves no residue
- All-Way Spray aerosol

ES7100	12 oz / 340 g aerosol

ES810

Electro-Wash® PX

Extra-strength universal cleaner and degreaser safe for use on plastics

- Safe on plastics
- Flammable
- Extra cleaning strength
- Dries fast
- Leaves no residue
- Removes organic and ionic soils
- All-Way Spray aerosol

ES810	5 oz / 141 g trigger aerosol
ES1210	12.5 oz / 354 g aerosol
ES110	1 gal / 3.7 L liquid

BEST SELLER

ES1603

Electro-Wash® PR

Regular-strength cleaner safe for use on plastics

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue
- All-Way Spray aerosol

ES1603	10 oz / 283 g aerosol

ES125A

Electro-Wash® Two Step

Extra-strength, nonflammable ultrasonic and immersion cleaner

- Nonflammable
- Extra cleaning strength
- Leaves no residue when rinsed with Electro-Wash PX or Electro-Wash CZ
- Increasing temperature increases solvency

ES125A	1 gal / 3.7 L liquid

Max-Kleen™ Heavy-Duty Degreasers rise to the challenge of your most difficult jobs. These industrial strength cleaners offer fast, easy removal of grease, tar, asphalt, oil and grime. The extra-strength your toughest degreasing jobs require.

VVV2279

Max-Kleen™ Tri-V™

Extra-strength, nonflammable heavy-duty degreaser for replacing n-propyl bromide

- Nonflammable
- Can be used on energized equipment
- Full azeotrope — ideal when reclamation process is required
- Fast drying
- Does not contain n-propyl bromide, trichloroethylene or perchloroethylene
- NSF registered K1 and K2

VVV2279	20 oz / 567 g aerosol
VVV579	5 gallons / 19 L Container
VVV5579	53 gallons / 200 L Drum

BEST SELLER

ES2289

Max-Kleen™ Citrus

Citrus-based extra-strength degreaser

- Citrus-based formula
- Engineered for fast removal of oxidized grease, sludge, wax, tar and oil
- Dielectric strength of 62 kV
- Does not contain chlorinated solvents
- Safe on most metals and plastics
- Non-corrosive and non-conductive
- NSF Registered — Nonfood Compounds/Code C1
- All-Way Spray aerosol

ES2289	15 oz / 425 g aerosol
ES589	5 gallons / 19 L liquid
ES5589	53 gallons / 200 L liquid

BEST SELLER

ES2291

Max-Kleen™ Citrus HF

Heavy-duty citrus degreaser

- Citrus-based formula with moderate evaporation rate
- Quickly removes all types of tough soils including oxidized oil and grease
- Safe for use on most metals and plastics
- VOC compliant degreaser
- Flashpoint greater than 140º F
- Non-corrosive and nonconductive
- Low Toxicity
- Leaves no residue

ES2291	13.5 oz / 383 g aerosol

ES5589

ES1605

Pow-R-Wash™ PR

Regular-strength contact cleaner safe for use on plastics

- Safe on plastics
- Flammable
- Dielectric breakdown of 44 kV
- Dries fast
- Leaves no residue
- All-Way Spray aerosol

ES1605	10 oz / 283 g aerosol

ES2400

Tun-O-Wash® Cleaner

Universal fast drying cleaner for electro-mechanical and electronic tuners

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue
- Cleans hard-to-reach areas
- All-Way Spray aerosol

ES2400	12.5 oz / 354 g aerosol

ES7300

Pow-R-Wash™ CZ

Non-ozone depleting, nonflammable contact cleaner safe for use on powered-up contacts and surrounding plastics

- Safe on plastics
- Nonflammable
- Dielectric strength of 31 kV
- Evaporates quickly without leaving residue
- Dries fast
- Leaves no residue
- All-Way Spray aerosol

ES7300	12 oz / 340 g aerosol

ES2425

Pow-R-Wash™ Cable Cleaner

Extra-strength, plastic safe cable and contact cleaner with a moderate evaporation time

- Safe on plastics
- Flammable
- Dielectric breakdown of 62 kV
- Leaves no residue
- All-Way Spray aerosol

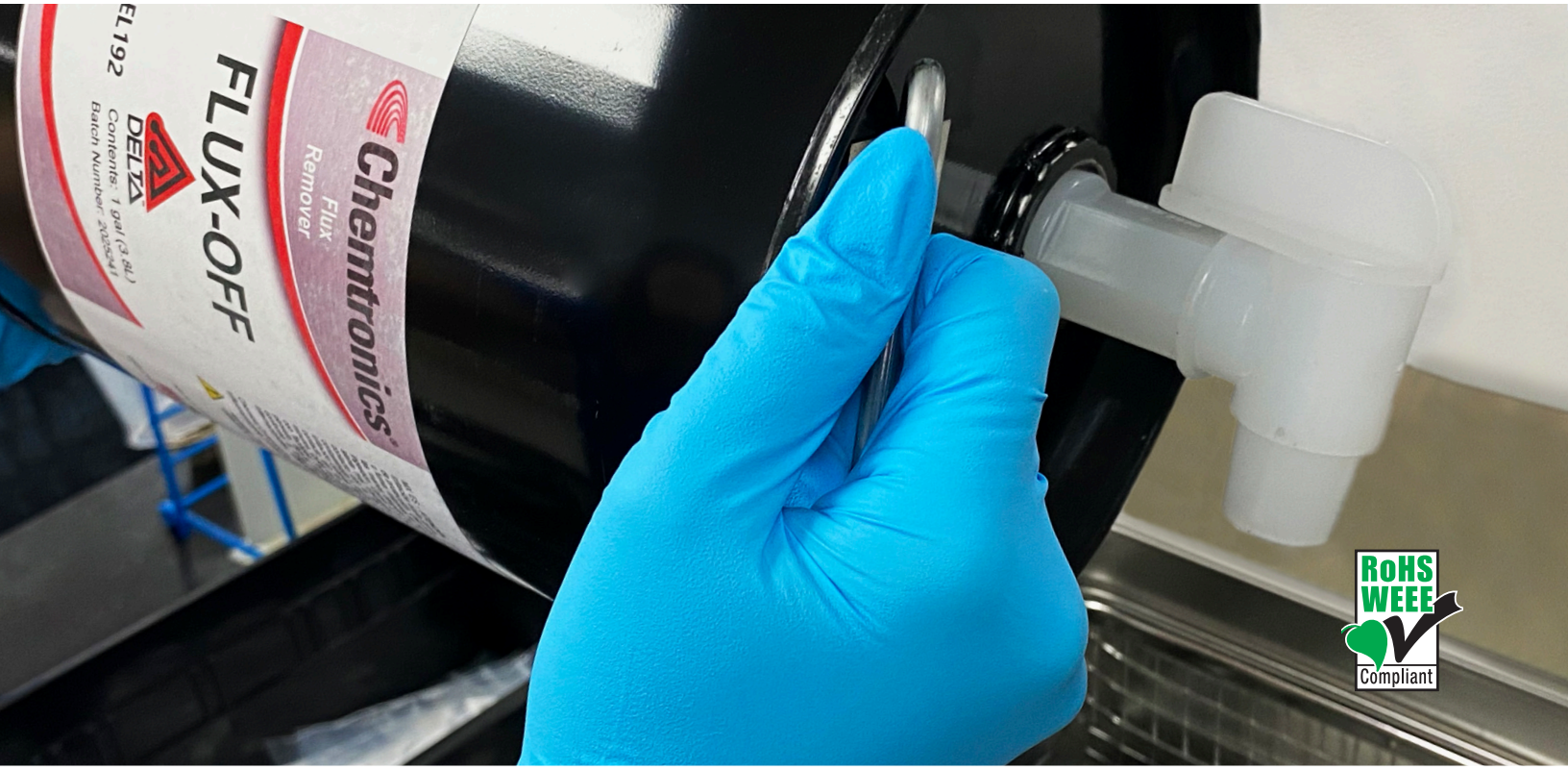
ES2425	13.5 oz / 385 g aerosol

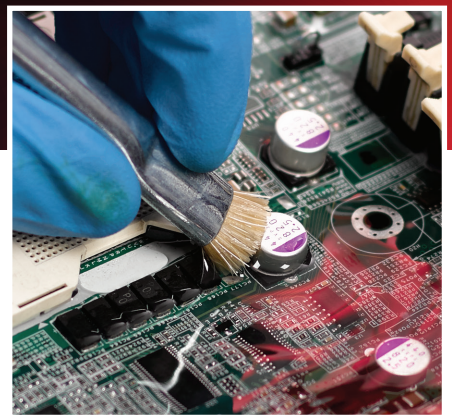
Pow-R-Wash™ High Purity Formulations remove environmental contaminants and protect contacts from corrosion and frictional wear. Contact cleaners restore electrical continuity to all electronic and electrical contacts by penetrating and removing insulating oil and grease, conductive carbon soil, and insulative oxides from contact surfaces. By restoring full circuit continuity, Chemtronics contact cleaners improve the performance of all equipment that rely on electrical contacts.

Product Selection Guide

Cleaner Degreasers		Features: Plastic Safe	Nonflammable	Cleaning Strength	No Ozone Depleting Chemicals	Dries Fast	VOC-EPA (Aerosol / Liquid)	Benefits & Applications: For Use On Live Circuits	Dielectric Breakdown	
Pow-R-Wash Cable Cleaner	ES2425	1		X	✓		50% / NA		62kV	Strongest Cleaner
Pow-R-Wash PR	ES1605	1		R	✓	✓	100% / NA		44kV	
Tune-O-Wash	ES2400	1		R	✓	✓	75% / NA		23kV	
Pow-R-Wash CZ	ES7300	1	✓	R	✓	✓	7% / NA	✓	31kV	Most Plastic-Safe

1 – Excellent 2 – Good R – Regular Strength X – Extra Strength





Flux removal is critical to ensure reliable circuitry. Not only unsightly, flux residue can promote short circuits and corrosion, degrading or destroying the printed circuit board.
Flux-Off® Flux Removers are specially formulated to remove all types of lead-free, rosin (types R, RA and RMA), no-clean, water soluble and synthetic flux.

DELTA™

Flux-Off® Delta

Extra-strength, nonflammable solvent that removes heavy and encrusted flux deposits

- Nonflammable
- Best AK225 replacement chemistry
- Fast drying
- Contains no ozone depleting compounds, low VOC's
- All-Way Spray aerosol

DEL1692

DEL1692	12 oz / 340 g aerosol
DEL192	1 gal / 3.7 L liquid
DEL5592	53 gal / 200 L liquid

BEST SELLER

VVV595

TM

Flux-Off® Tri-V™

Extra strength, nonflammable flux remover for replacing n-propyl bromide

- Nonflammable
- Can be used on energized equipment
- Fast drying
- Does not contain n-propyl bromide, trichloroethylene or perchloroethylene

VVV595	5 gal / 18.9 L liquid
VVV5595	53 gal / 200 L liquid

TECH TIP!

How to Use an Aerosol Flux Remover

Product Selection Guide

		Primary Flux Residue Cleaned								Features				Cleaning Methods		
		Rosin Based*	No-Clean SA-Synthetic	Water Soluble	Removes White Residue	Plastic Safe	Nonflammable	Dries Fast	VOC-EPA (Aerosol / Liquid)	Aerosol Spray	BrushClean™ System	Hand Cleaning	Vapor Degreasing	Ultrasonics	Immersion	
Flux-Off Tri-V	VV595/VV5595	1	1	NR	✓	NR	✓	✓	95% / NA			✓	✓	✓	✓	Strongest Cleaner
Flux-Off Delta	DEL1692/DEL192/DEL5592	1	1	NR	✓	2	✓	✓	39% / 52%	✓	✓	✓		✓	✓	
Flux-Off Heavy Duty	ES1631/ES131	1	1	2	✓	3	✓	✓	38% / NA	✓		✓		✓	✓	
Flux-Off VZ	ES6200	1	2	NR		2	✓	✓	25% / NA	✓		✓		✓	✓	
Flux-Off No Clean EXTRA	ES888B	1	1	2	✓	2		✓	46% / NA	✓	✓	✓			✓	
Flux-Off Lead-Free	ES1697/ES897B/ ES197/ES5597	1	2	2	✓	2		✓	51% / 51%	✓	✓	✓			✓	
Flux-Off No Clean Plus	ES1696/ES896B/ES196/ ES596/ES5596	1	1	2	✓	2		✓	51% / 51%	✓	✓	✓			✓	
Flux-Off Rosin	ES1035/ES1035B/ES835B/ ES135/ES535/ES5535	2	1	2		1		✓	75% / 100%	✓	✓	✓				
Flux-Off Water Soluble	ES1530/ES130	1	NR	1		1		✓	75% / 75%	✓		✓			✓	
Flux-Off Aqueous	ES132	1	2	1	✓	1	✓		NA / 16%					✓	✓	
Flux-Off CZ	ES7200/ES7208B	1	2	NR		1	✓	✓	NA / NA	✓	✓	✓				Most Plastic-Safe

1 – Excellent 2 – Good NR – Not Recommended *R, RMA, RA, Rosin-based No-Clean

ES6200

Flux-Off® VZ

Economical, non-ozone depleting, nonflammable flux remover

- Nonflammable
- Cleans R, RMA, RA, and no-clean flux
- Low odor
- Dries fast
- Leaves no residue
- All-Way Spray aerosol

ES6200	12 oz / 340 g aerosol

ES7200 *ES7208B*

Flux-Off® CZ

Non-ozone depleting, nonflammable flux remover safe for use on plastics

- Safe on plastics
- Nonflammable
- Cleans R, RMA, RA, and no-clean flux
- Dries fast
- Leaves no residue
- All-Way Spray aerosol

ES7200	12 oz / 340 g aerosol
ES7208B	5 oz / 141 g BrushClean™ System

ES135 *ES1035*

Flux-Off® Rosin

Plastic safe flux remover for cleaning all rosin and rosin-based no-clean flux

- Safe on plastics
- Flammable
- Evaporates quickly
- Leaves no residue
- All-Way Spray aerosol

ES1035	10 oz / 283 g aerosol
ES1035B	10 oz / 283 g BrushClean™ System
ES835B	5 oz / 141 g BrushClean™ System
ES135	1 gal / 3.7 L liquid
ES535	5 gal / 18.5 L liquid
ES5535	55 gal / 208 L liquid

ES897B ES1697

BEST SELLER

Flux-Off® Lead-Free

Powerful flux remover for high temperature, lead-free flux removal

- Engineered for removing high temperature, lead-free flux
- Can also be used to remove tin/lead fluxes
- Flammable
- Evaporates quickly without leaving residue
- All-Way Spray aerosol

ES1697	12 oz / 340 g aerosol
ES897B	6 oz / 170 g BrushClean™ System
ES197	1 gal / 3.7 L liquid
ES5597	55 gal / 208 L liquid

ES1631

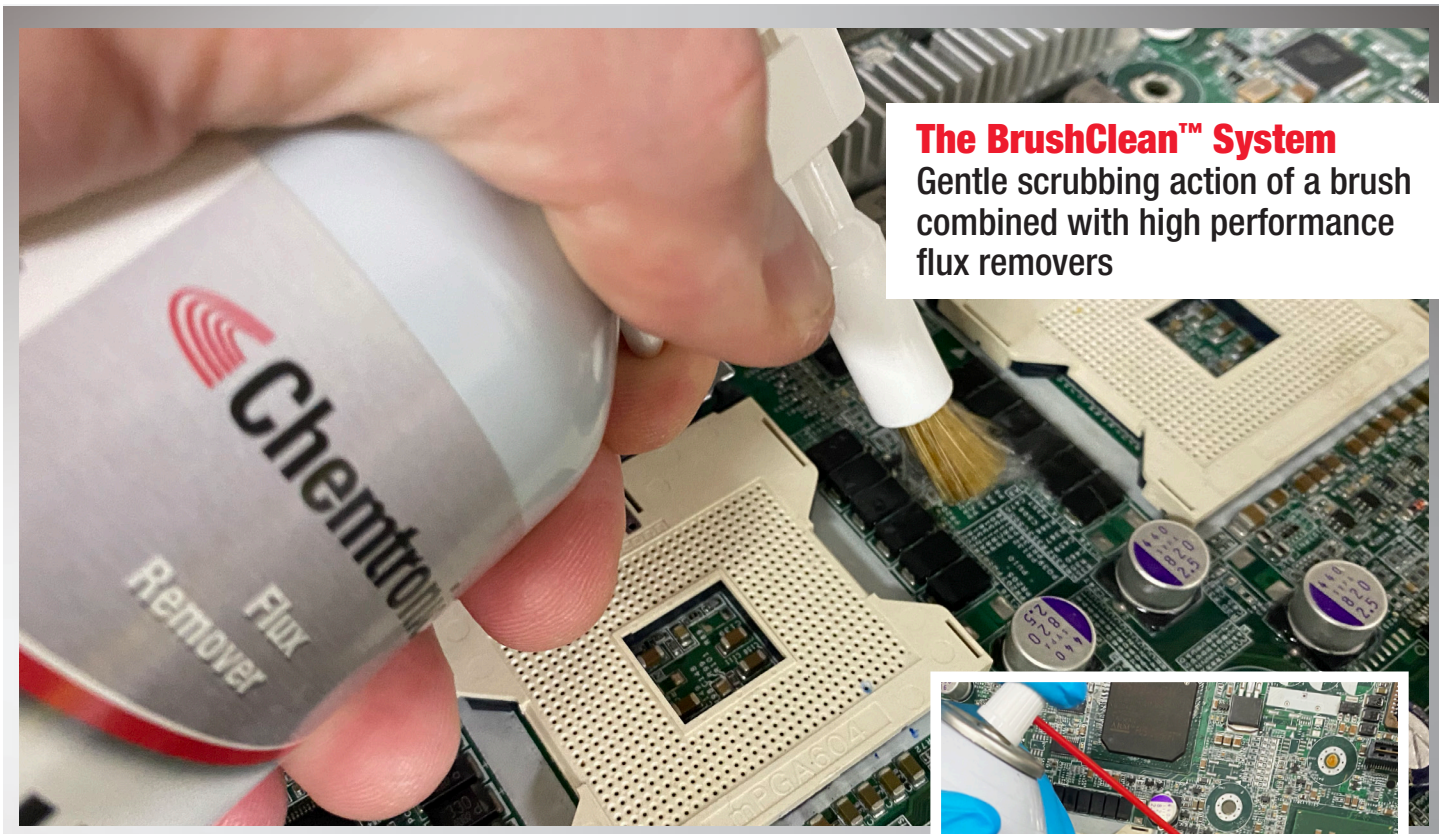
Flux-Off® Heavy-Duty

Heavy-duty flux remover for removing encrusted no-clean and rosin flux

- Nonflammable
- Dries fast
- Leaves no residue
- Test on plastics
- All-Way Spray aerosol

BEST SELLER

ES1631	12 oz / 340 g aerosol
ES131	1 gal / 3.7 L liquid



The BrushClean™ System

Gentle scrubbing action of a brush combined with high performance flux removers

The BrushClean™ System

This system increases cleaning efficiency in two ways – minimizing solvent usage by applying solvent only where you need it, and maximizing cleaning with the addition of mechanical scrubbing action.

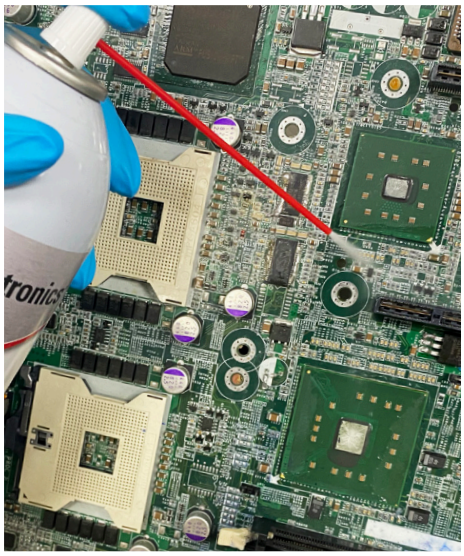
- Powerful solvents with scrubbing action of a brush
- Brush precisely applies solvent
- For critical defluxing, use Controlwipe™ (C910) between brush and board to absorb dissolved flux residues
- Solvent flow flushes brush clean
- New brush supplied with every can

Three powerful tools — one convenient package:

Spot clean with the brush

Flush under SMD's with the extension tube

Clean large areas with the spray nozzle



Extension tube included.

Flux-Off® Aqueous

Aqueous flux remover for use in ultrasonics and in-line cleaning systems

- Water-based saponifier for removing all flux types
- Safe on plastics
- Nonflammable
- Concentrated – dilute to adjust cleaning strength
- Requires a water rinse

ES132	1 gal / 3.7 L liquid

Chemtronics FAQ: Why Remove No-Clean Flux After Soldering?

TECH TIP!

ES896B *ES1696*

Flux-Off® No-Clean Plus

Powerful economical flux remover for cleaning no-clean flux

- Flammable
- Dries fast
- Leaves no residue
- Test on plastics
- All-Way Spray aerosol

ES1696	12 oz / 340 g aerosol
ES896B	6 oz / 170 g BrushClean™ System
ES196	1 gal / 3.7 L liquid
ES596	5 gal / 18.5 L liquid
ES5596	55 gal / 208 L liquid

ES888B

Flux-Off® No-Clean EXTRA

Low VOC, extra-strength solvent blasts away light or heavy encrusted flux deposits, oxide particles, dust, grease and oil

- Low VOC
- Non-corrosive, safe for metals
- Fast evaporation
- All-Way Spray aerosol

ES888B	10 oz. / 284 g BrushClean™ System

TECH TIP!

Flux-Off No-Clean EXTRA Flux Remover

IPA - Isopropyl Alcohol

Conveniently packaged and easy to use 99.9% technical grade isopropyl alcohol

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue
- Cleans hard-to-reach areas
- Meets Fed Spec TT-1-735A

ES605L	16 fl oz / 473 ml liquid
ES105	1 gal / 3.7 L liquid
ES505	5 gal / 18.9 L liquid
ES5505	53 gal / 200 L liquid

ES130 *ES1530*

Flux-Off® Water Soluble

Plastic safe flux remover for cleaning water-soluble flux

- Safe on plastics
- Flammable
- Dries fast
- Leaves no residue

ES1530	13.5 oz / 383 g aerosol
ES130	1 gal / 3.7 L liquid

Chemtronics Static Free™ products are engineered to protect electronic equipment and work spaces from static buildup while cleaning and reconditioning. These products provide everything required for a comprehensive surface treatment program as recommended by ANSI/ESD S20.20.

Static Free™ Hand Guard™

Hand lotion formulated to protect against electrostatic discharge

- Special formulation minimizes potential for static damage
- Penetrates deeply to moisten and refresh dry, chapped or chemically irritated skin
- Nongreasy formula contains Aloe Vera and Vitamin E
- Contains no lanolin, silicone or mineral oil that could inhibit solderability of printed circuits or components

C805	8 fl oz / 236 ml liquid

Static Free™ Mat and Benchtop Reconditioner

Cleans and rejuvenates ESD-safe surfaces

- Cleans and rejuvenates burned or dead spots on ESD mats
- Will not dry mat surfaces with repeated use
- Long-lasting dissipative protection – up to 30 days
- Effective in relative humidity below 15%
- Chloride and amine free formulation
- Noncorrosive
- Meets static decay criteria of MIL-B-891705C

ES1664T	16 fl oz / 472 mL Trigger Spray
SIP125P1664 ***NEW!***	125 presaturated wipes in pull-up tub
6209LCESD1664 ***NEW!***	150 presaturated cleanroom wipes in ESD pouch - Resealable
6259BESD2 *Also on Page 16*	9" x 9" (22.9cm x 22.9cm) black laser-sealed polyester wipe, 140g/m2, 150 wipes/bag

SIP125P1664

6209LCESD1664

Static Free™ Plast-N-Glas®

Foaming, non-streaking static dissipative cleaner for transparent surfaces

- Controls static, cleans and polishes in one application
- Effectively removes handling soils, finger oils and stains
- Prevents attraction of dust and dirt
- Compatible with plastics, glass and stainless steel
- Foaming spray won't run or drip; ideal for optical surfaces
- Not for use on anti-glare coatings or mesh screens

Applications:

- Cleaning computer monitors and housings
- Removing handling soils from precision glassware
- Maintaining cleanliness of observation windows on production equipment

ES1668	14 oz / 397 g aerosol

ES1668

SIP125P

SIP100P

IPA Presaturated Wipes

General purpose presaturated wipe in a convenient dispenser

Isopropyl Alcohol (IPA) Wipes remove solder paste, inks, and other contaminants. They are ideal for all general cleaning applications. Alcohol wipes are well suited for touch-up cleaning of automatic printer stencils and cleaning of semi-automatic printer stencils during and at the end of production runs. These wipes contain ultra-pure Electronics Grade IPA. Isopropyl alcohol wipes are available in a C-fold wipe contained in a convenient dispensing box, or in a pull-up tub.

- Ultra pure mixture of IPA and deionized water
- Nonwoven, spunlaced polyester material
- Non-scratching and strong — will not tear or lint
- Ideal for cleaning of semi-automatic printer stencils and touch-up cleaning of automatic printer stencils

SIP100P	100 presaturated wipes in pull-up tub 70% IPA and 30% deionized water
SIP100Refill	100 ct refill roll
SIP125P	125 presaturated wipes in pull-up tub 70% IPA and 30% deionized water
SIP125Refill	125 ct refill roll
SIP91P	100 presaturated wipes in pull-up tub 91% IPA and 9% deionized water

CSP20

Screen Prep™ Presaturated Wipe

Convenient cleaning and static control for monitors

- Cleans and provides a static dissipative treatment
- Prevents airborne recontamination for up to seven days
- Safely removes dust, dirt, oil and nicotine
- Controls static-generated contamination
- Wet pad cleans and applies static protection
- Dry wiper polishes screen optically clear

CSP20	25 twin packs #1 presaturated pad #2 polishing wiper

BEST SELLER

Chempad™ Presaturated Wipe

General purpose, presaturated lint-free cleaning wipe

- Contains ultra pure blend of 91% IPA/9% deionized water
- Highly saturated
- Thick, non-abrasive wiping pad
- Quickly removes dust, oils and contaminants

CP400	50 single pack presaturated wipes/pads

CP410

Optic Prep™ Presaturated Wipe

Highest quality premoistened lens-grade tissue for cleaning optical surfaces

- Safely cleans and polishes optical surfaces, lenses, photographic equipment, fiber optic connectors and instruments
- Compatible with most plastics, glass and metals
- Mild cleaning solution, nonabrasive wipe
- Quickly removes dust, oils and contaminants from connectors and instruments

CP410	50 single pack presaturated pads

BEST SELLER

CS25

Chemswab™ Presaturated Swab

Easy to use swab presaturated with alcohol

- Urethane foam swab (Foamtips™ #120) presaturated with ultra-pure IPA
- Evaporates quickly with no residue or contamination
- Nonabrasive
- Ideal for field service kits

CS25	25 presaturated swabs

CP421

Electro-Wash® MX Presaturated Wipe

Extra-strength plastic safe universal cleaner with moderate evaporation time

- Cleans all soil types — organic and ionic
- Moderate evaporation rate increases cleaning power
- Leaves no residue
- Presaturated wipe great for toolbox or travel

Applications:

- Ideal for cleaning fiber optics and fiber optic connectors, cables, hard-line coax cable, cable splices, PC boards, motors, tools and transformers, flooding compounds, control systems, screens and stencils

CP421	25 single pack presaturated wipes

Also available in an aerosol — ES1621. See page 6.

NEW!

6259LE7030

High Purity Alcohol Wipes

PreSaturated 70 % Hi-Purity IPA Wipes in ESD-Safe Resealable Pouch

- Class 10 (ISO 4 and higher) laundered and presaturated polyester cleanroom wipe
- Optimized, consistent cleaning with high absorbency and no residue
- Laser sealed edge and monofilament "no-run" polyester prevent loose fibers
- Ultra-low acidity, ionics, trace metallics, non-volatile residues (NVR) and particulates
- Durable, heavy-weight knitted polyester handles abrasive and irregular surfaces
- Cleanroom double-bagged in a resealable, ESD-safe pouch for use in sensitive and critical environments
- Durable, presaturated IPA cleanroom wipes
- 9" x 9" (22.9 cm x 22.9 cm)

6259LE7030	50 wipes per bag/10 bags per case

Double-Bagged to insure wipe is fully saturated

Coventry™ Cleanroom Polyester and Microfiber Wipes

Coventry™ cleanroom laundered wipes offer an extra level of protection for critical applications

Our Poly-Wipes are made from 100% continuous filament polyester — the standard in cleanroom wipes —minimizing particle generation. The Cleanroom Chamois™ is the only wipe made from a 50/50 nylon/cellulose microfiber blend, providing superior toughness and particle entrapment. The microfibers in the Cleanroom Chamois™ have a unique wedge shape, which lifts all types of contaminants from the surface more effectively than conventional round fibers. Poly-Wipes and Cleanroom Chamois™ are both laundered in our Class 10 (ISO Class 4) cleanroom and are available with our exclusive laser-edge (LE) or heat cut (HC) sealing process.

Product Name	Part Number	Material	Quantity	Size
Poly-Wipes BEST SELLER	6209	Light-weight polyester (high absorbency)	150	9" x 9" 22.9 cm x 22.9 cm
Poly-Wipes	6259	Heavy-weight polyester (high absorbency)	150	9" x 9" 22.9 cm x 22.9 cm
Sealed Edge Poly-Wipes	6259HC	Heavy-weight polyester (high absorbency)	150	9" x 9" 22.9 cm x 22.9 cm
Sealed Edge Poly-Wipes	6209HC	Light-weight polyester (high absorbency)	150	9" x 9" 22.9 cm x 22.9 cm
Sealed Edge Cleanroom Chamois™	7348LE (high absorbency)	Microfiber	50	8" x 8" 20 cm x 20 cm
Hi-Purity Alcohol Wipes ***NEW!*** **See page 15 for full specs*	6259LE7030	Durable, **presaturated** IPA cleanroom wipes, double-bagged	50	9" x 9" 22.9 cm x 22.9 cm

Coventry™ Poly Double-Onyx ESD Wipes

ESD safe, black polyester monofilament wipe

- Class 100 – 1000 (ISO 5-6) black, laser-sealed edge polyester wipe
- Static dissipative within 10^7-10^9 range for S20.20 compliance
- Conductive material is double-sided and double-density for maximum continuity to ground
- High durability for cleaning rough, abrasive or irregular surfaces

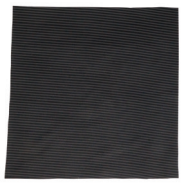
6259BESD2	9" x 9" (22.9cm x 22.9cm) black laser-sealed polyester wipe, 140g/m2, 150 wipes/bag

BEST SELLER

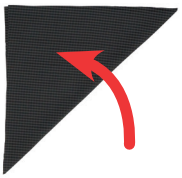
How To Use

When folded corner-to-corner, Poly Double-Onyx ESD Wipes form a dissipative grid that allows the wipe to be grounded.

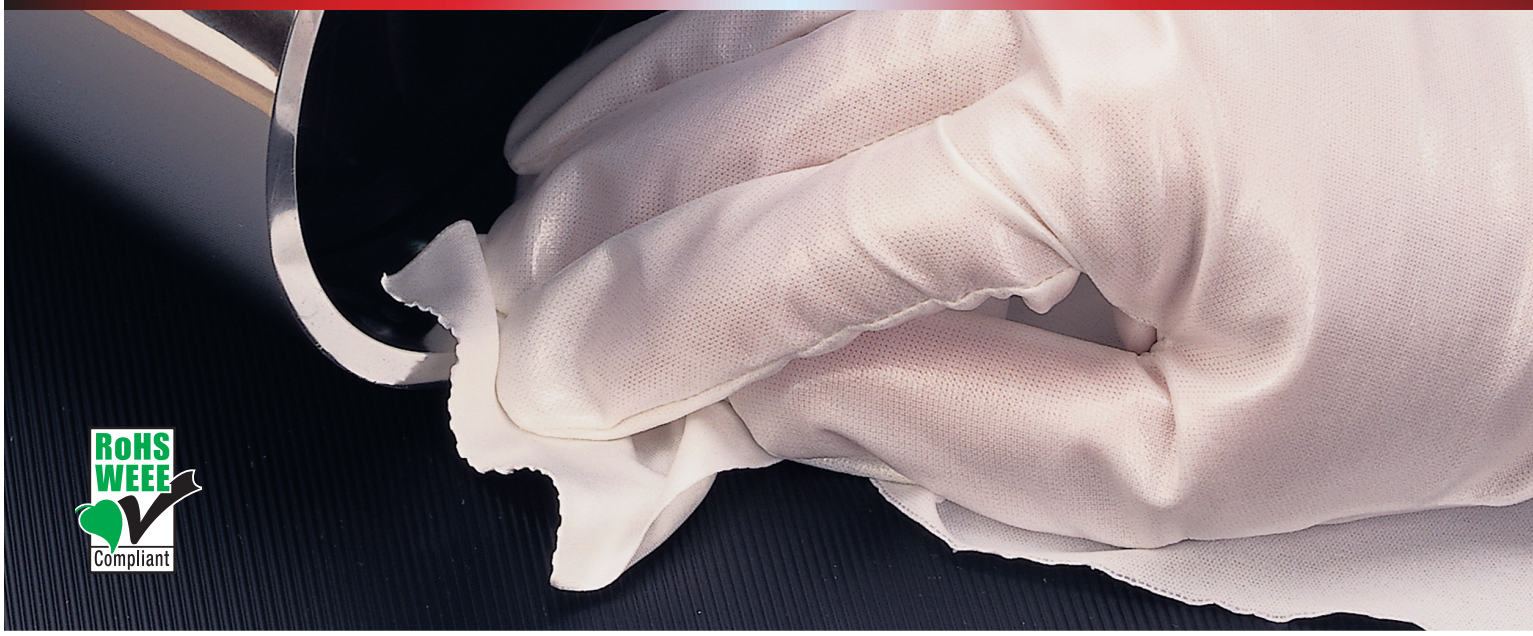
1 Flatten wipe



2 Fold wipe corner-to-corner



3 Fold wipe corner-to-corner again



Chemtronics® Dry Wipes are engineered and manufactured clean. They are designed for controlled environments, light industrial, benchtop, laboratory and high absorbency applications.

They are ideal for use with strong solvents and the full range of engineered Chemtronics® cleaners: Electro-Wash® cleaner degreasers, Static Free™ static control products and Flux-Off® flux removers.

- **High absorbency**
- **Contamination control**
- **High-purity**
- **Little or no linting**

Coventry™ Nonwoven Wipes

Coventry™ Econowipes™ are made from a hydro-entangled, 45/55 cellulose/polyester blend, for optimum purity in a nonwoven wipe. Econowipes™ are available in three convenient sizes.

Product	Material	Quantity	Size
6704	Polyester/cellulose blend, nonwoven	1200	4" x 4" 10.2 cm x 10.2 cm
6704F	Polyester/cellulose blend, nonwoven	100	4" x 4" 10.2 cm x 10.2 cm
6709 BEST SELLER	Polyester/cellulose blend, nonwoven	300	9" x 9" 22.9 cm x 22.9 cm
6713	Textured polyester/ cellulose blend, nonwoven, quarter-folded	50	12" x 13" 30.5 cm x 33.0 cm

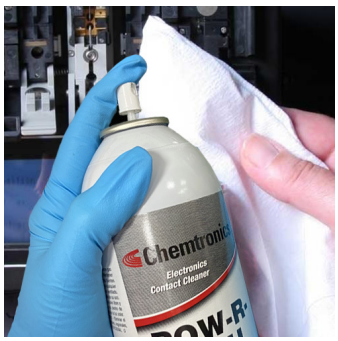
TECH TIP!

How to Choose the Right Coventry Wipe

6704

6704F

6709



6713

ControlWipes™ consist of cellulose and polyester nonwoven fabric. These wipers have excellent absorbency, contamination entrapment, and high strength. ControlWipes™ are ideal as an economical utility wipe for any clean area.

Control Wipes

Solvent resistant highly absorbent wipe

- Nonwoven, spunlaced polyester cellulose fabric
- General purpose lint-free wipe
- Packaged in a Class 100 cleanroom environment
- Strong; will not tear, shred, unravel, or lint
- High absorbency and liquid retention
- Will not abrade surfaces
- Resistant to most solvents, alcohols and diluted acids
- For critical environment applications requiring contamination control

Applications:

- Clean water processing areas
- Clean-up acids and other chemical spills

C910	150 wipes	9” x 9” / 23 cm x 23 cm

Twillwipes™

Highly absorbent wipe for abrasion-free cleaning and drying of sensitive surfaces, components and equipment

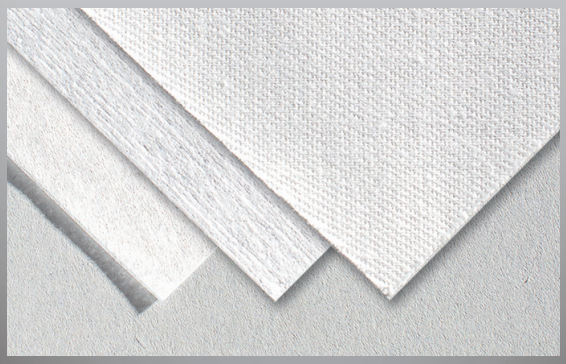
Twillwipes™ are made of 100% cotton twill fabric, cut on the bias to prevent fraying. These wipers have excellent absorbency, as well as high strength, especially when wet with water. Twillwipes™ are ideal for high temperature applications that would melt most other wipes.

- Strong, textured 100% cotton
- Minimal linting
- Cleanroom Compatible Class 1000 / ISO Class 4
- Resistant to caustic solvents and temperatures up to 302ºF/150ºC

Applications:

- Cleaning applications involving high temperature
- Ideal for use with caustic solutions

C900	150 wipes	9” x 9” / 23 cm x 23 cm



Chemtronics® Swabs and Applicators are engineered for use in a variety of environments and applications. They are ideal for use with our cleaner degreasers, head cleaners, flux removers and other solvents for fast, precision cleaning. From the innovative no-lint Chamois Tips™ Swab to the general purpose Cottontips™ Swab, Chemtronics® has the right swab or applicator for your job.

RoHS WEEE Compliant

Foamtips™

Highly absorbent precision cleaning swab with a wide variety of head sizes and shapes

- Precision cleaning swabs with 100 ppi polyurethane open cell foam head
- Purest medical grade foam
- Foamtips™ Pro swab (CFP50) has a blue scrubber end and a soft absorbent end
- Available in a variety of head sizes and shapes with various handle lengths

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
Foamtips™ Pro CFP50	50 swabs	6.75" 17.1 cm	0.20" x 0.13" 4.8 mm x 3.3 mm	**white head:** 0.75" 19.1 mm **blue head:** 0.69" 17.5 mm	**white head:** 0.44" 11.1 mm **blue head:** 0.28" 17.1 mm	polypropylene	**white side:** 100 ppi open cell foam **blue side:** 75 ppi closed cell

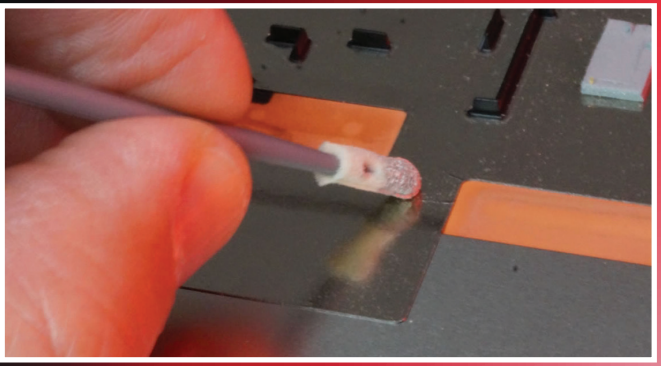
Foamtips™ #100 CF50	50 swabs	6.10" 15.5 cm	0.06" x 0.06" 1.5 mm x 1.5 mm	0.88" 22.4 mm	0.38" 9.7mm	wood	100 ppi open cell foam over cotton bud
43170	500 swabs	6.10" 15.5 cm	0.06" x 0.06" 1.5 mm x 1.5 mm	0.88" 22.4 mm	0.38" 9.7mm	wood	polyurethane foam over cotton

Foamtips™ #110 CF1050	50 swabs	5.00" 12.7 cm	0.28" x 0.13" 7.1 mm x 3.3 mm	1.00" 25.4mm	0.82" 20.8 mm	polypropylene	100 ppi open cell foam

Foamtips™ #120 CF2050 BEST SELLER	50 swabs	5.12" 13.0 cm	0.19" x 0.13" 4.8 mm x 3.3 mm	1.00" 25.4 mm	0.46" 11.7 mm	polypropylene	100 ppi open cell foam

Foamtips™ #130 CF3050	50 swabs	6.00" 15.2 cm	0.13" x 0.13" 3.3 mm x 3.3 mm	0.75" 19.1mm	0.25" 6.4 mm	polypropylene	100 ppi open cell foam

49280	500 swabs	6.5" 16.4 cm	0.12" 3.1 mm	0.68" 17.3 mm	0.18" x 0.19" 4.7 mm x 4.7 mm	polypropylene	polyurethane foam



Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
Foamtips™ #140 CF4050	50 swabs	2.87" 7.3 cm	0.10" x 0.10" 2.5 mm x 2.5 mm	0.50" 12.7 mm	0.19" 4.8 mm	polypropylene	100 ppi open cell foam
Coventry 41050 BEST SELLER	500 swabs	2.8" 7.2 cm	0.10" 2.6 mm 1	0.40" 0.2 mm	0.13" x 0.14" 3.3 mm x 3.5 mm	polypropylene	polyurethane foam
Coventry 44070 BEST SELLER	500 swabs	3.2" 8.0 cm	0.10" 2.4 mm	0.39" 9.9 mm	0.11" x 0.13" 2.7 mm x 3.3 mm	polypropylene	polyurethane foam
Coventry 48040 flexible head	500 swabs	2.7" 6.8 cm	0.09" 2.2 mm	0.41" 10.5 mm	0.10" x 0.12" 2.5 mm x 3.1 mm	polypropylene	polyurethane foam
Flextips™ CX50 BEST SELLER flexible head	50 swabs	4.45" 11.3 cm	0.16" x 0.16" 4.1 mm x 4.1 mm	0.81" 20.6 mm	0.25" 6.4 mm	nylon/polypropylene	100 ppi open cell foam
Flextips™ Mini CXM50 flexible head	50 swabs	4.13" 10.5 cm	0.16" x 0.16" 4.1 mm x 4.1 mm	0.53" 13.5 mm	0.19" 4.8 mm	nylon/polypropylene	100 ppi open cell foam
Flextips™ Mini SX50	50 swabs	4.45" 11.3 cm	0.16" x 0.16" 4.1 mm x 4.1 mm	0.81" 20.6 mm	0.25" 6.4 mm	nylon/polypropylene	100 ppi open cell foam

Chamois Tips™

Ideal swab for cleaning magnetic and optical, audio and video heads

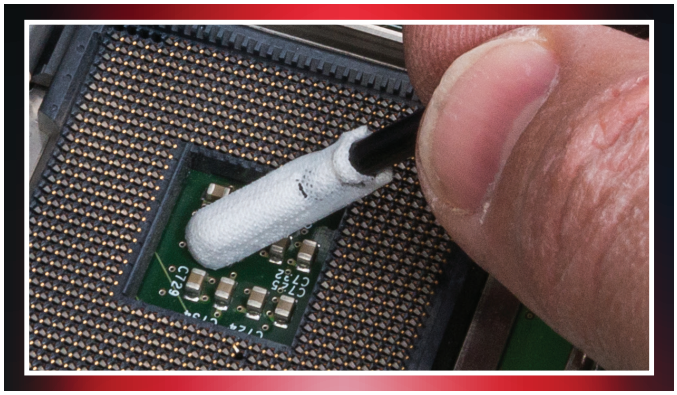
- Synthetic chamois cloth head
- Material is free of oils and residues
- Flexible handle bends to clean hard-to-reach areas
- Bonded without adhesives
- Seamless construction
- Effectively cleans excess ink from ink jet cartridges
- Abrasion resistant
- Non-snagging

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
CC50	50 swabs	3.25" 8.3 cm	0.38" x 0.07" 9.7 mm x 1.8 mm	0.88" 22.4 mm	0.38" 9.7 mm	ABS (acrylonitrile-butadiene-styrene)	synthetic chamois cloth

Coventry™ Sealed Polyester Swabs

Exceptionally clean, tough and durable swabs

An exceptionally clean swab produced by Coventry's proprietary process of forming and welding the swab head without the use of adhesives. Featuring either knit or nonwoven fabric heads, these swabs are acid and solvent resistant. Sealed edges build in high strength with no loose fibers or particulates. Coventry sealed polyester swabs have the strongest seams available and will not split. They are ideal for tough scrubbing around raised shapes. Class 10 (M3, ISO 4) processing gives you low ionic, nonvolatile residue and particle contaminants.



Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
36060	500 swabs	5.8" 14.7 cm	0.12" 3.1 mm	0.75" 18.9 mm	0.19" x 0.21" 4.7 mm x 5.4 mm	polypropylene	knit polyester
36061i	25 swabs	5.8" 14.7 cm	0.12" 3.1 mm	0.75" 18.9 mm	0.19" x 0.21" 4.7 mm x 5.4 mm	polypropylene	knit polyester

36850	500 swabs	5.8" 14.7 cm	0.12" 3.1 mm	0.75" 18.9 mm	0.19" x 0.21" 4.7 mm x 5.4 mm	polypropylene	knit poly/nylon microfiber

34860*	500 swabs	2.8" 7.1 cm	0.09" 2.3 mm	0.47" 11.9 mm	0.10" x 0.10" 2.6 mm x 2.6 mm	polypropylene	knit poly/nylon microfiber

38040	500 swabs	2.7" 6.9 cm	0.09" 2.3 mm	0.44" 11.2 mm	0.09" x 0.12" 2.4 mm x 3.0 mm	polypropylene flexible tip	knit polyester

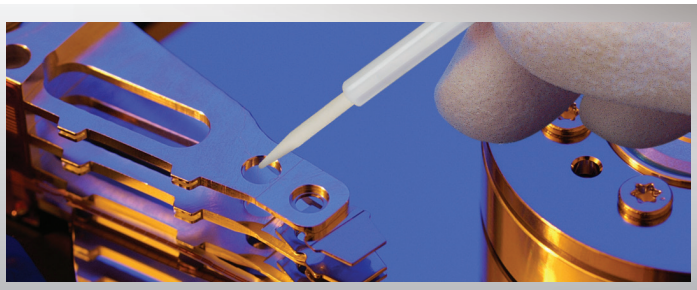
38140	500 swabs	2.7" 6.9 cm	0.09" 2.3 mm 1	0.48" 2.1 mm	0.06" x 0.12" 1.6 mm x 3.0 mm	polypropylene flexible tip	knit polyester

38540	500 swabs	2.7" 6.9 cm	0.09" 2.3 mm	0.46" 11.7 mm	0.04" x 0.12" 1.0 mm x 3.0 mm	polypropylene flexible tip	nonwoven polyester

Microtips™

Precision applicator for pinpoint solvent, adhesive and lubricant application

- Porous polyvinylidene fluoride-tipped precision applicator and cleaning tool
- Low extractables and particulate levels
- High chemical resistance – compatible with most solvents
- 1.9 mm tapered tip
- Excellent choice for depositing solvents, adhesives and coatings
- Effective as a stylus or pick



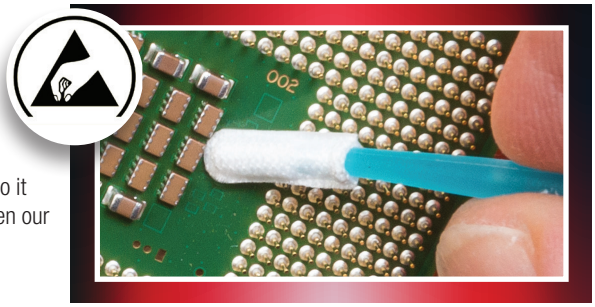
Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
CM502	50 swabs	6.7" 17.0 cm	0.13" x 0.13" 3.3 mm x 3.3 mm	0.62" 15.7 mm	0.08" 1.93 mm	polypropylene	polyvinylidene flouride

Coventry™ Wrapped Swabs

Durable & seamless wrapped foam swabs designed for precise applications

Our wrapped foam swabs provide good particle entrapment and work very well as adhesive, lubricant and solvent applicators. Wrapped swabs deliver superior abrasion resistance for removal of tough contaminants. Wicking action pulls solvent from surfaces. The small tips on some of the styles allow use in very tight tolerance areas, while the pointed ends work especially well as picks.

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
20050 BEST SELLER	500 swabs	2.6" 6.7 cm	0.09" 2.2 mm	1.06" 27.0 mm	0.12" x 0.12" 3.1 mm x 3.1 mm	wood	polyurethane foam
20080	500 swabs	2.6" 6.7 cm	0.09" 2.2 mm	0.89" 22.6 mm	0.11" x 0.11" 2.8 mm x 2.8 mm	wood	polyurethane foam
21050	500 swabs	2.8" 7.1 cm	0.10" 2.5 mm	1.08" 27.5 mm	0.14" x 0.14" 3.7 mm x 3.7 mm	nylon	polyurethane foam
51353	100 swabs	2.8" 7.1 cm	0.10" 2.6 mm	0.78" 19.8 mm	0.16" x 0.16" 4.1 mm x 4.1 mm	glass filled nylon	tubular knit polyester



Coventry™ High Precision ESD Static Control Swabs

Protects components from destructive static discharge

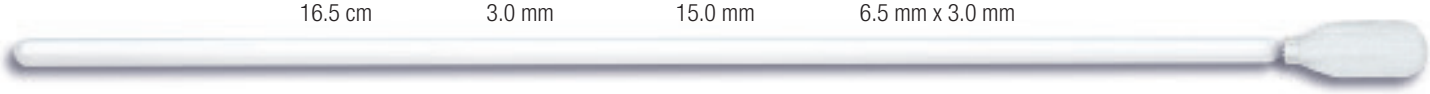
Engineered to eliminate damage from static electricity, the handles of these swabs will dissipate 99% of a 5,000 volt (5 KV) charge in less than 2.0 seconds. The static dissipative plastic alloy used to make the handles is inherently static dissipative. It contains no additives, coatings or surfactants so it functions at any level of humidity and it is very resistant to solvents — even acetone. Choose between our Class 10 (M3, ISO 4) laundered polyester or 100 pore-per-inch ultraclean polyurethane foam.

Coventry™ Sealed Polyester ESD Swabs

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
36060ESD	500 swabs	5.8" 14.7 cm	0.12" 3.1 mm	0.75" 18.9 mm	0.19" x 0.21" 4.7 mm x 5.4 mm	ESD	knit polyester
31040ESD	500 swabs	2.8" 7.2 cm	0.10" 2.7 mm	0.44" 11.0 mm	0.12" x 0.12" 3.1 mm x 3.1 mm	ESD	knit polyester
38040ESD	500 swabs	2.7" 6.9 cm	0.09" 2.3 mm	0.44" 11.2 mm	0.09" x 0.12" 2.4 mm x 3.0 mm	ESD	knit polyester
38540ESD	500 swabs	2.7" 6.9 cm	0.09" 2.2 mm	0.47" 12.0 mm	0.16" x 0.16" 4.0 mm x 4.0 mm	ESD	nonwoven polyester
36861CLR	500 swabs	6.5" 16.5 cm	0.12" 3.0 mm	0.67" 17.0 mm	0.28" x 0.14" 7.0 mm x 3.5 mm	ESD	knit polyester

Coventry™ Sealed Microfiber EDS Swabs

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
36863SDC	500 swabs	6.5" 16.5 cm	0.12" 3.0 mm	0.60" 15.0 mm	0.26" x 0.12" 6.5 mm x 3.0 mm	ESD	woven microfiber

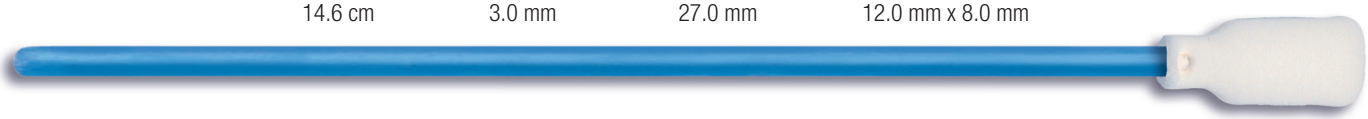


Coventry™ Polyester Pillow-Tip™ ESD Swabs

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
51121ESD	25 swabs	2.8" 7.1 cm	0.10" 2.5 mm	0.40" 10.2 mm	0.25" x 0.23" 6.5 mm x 5.7 mm	ESD	knit polyester

Coventry™ Sealed Foam ESD Swabs

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
49250ESD	500 swabs	5.75" 14.6 cm	0.12" 3.0 mm	1.06" 27.0 mm	0.47" x 0.32" 12.0 mm x 8.0 mm	ESD	polyurethane foam



41050ESD	500 swabs	2.8" 7.2 cm	0.10" 2.6 mm	0.40" 10.2 mm	0.13" x 0.14" 3.3 mm x 3.5 mm	ESD	polyurethane foam

BEST SELLER

48040ESD	500 swabs	2.7" 6.9 cm	0.09" 2.2 mm	0.43" 11.0 mm	0.12" x 0.09" 3 mm x 2.2 mm	ESD	polyurethane foam

44070ESD	500 swabs	3.2" 8.0 cm	0.10" 2.4 mm	0.39" 9.9 mm	0.11" x 0.13" 2.7 mm x 3.3 mm	ESD	polyurethane foam

BEST SELLER

44070SDC	500 swabs	3.2" 8.1 cm	0.10" 2.4 mm	0.39" 9.9 mm	0.11" x 0.13" 2.7 mm x 3.3 mm	ESD	polyurethane foam

49285CLR	500 swabs	6.5" 16.5 cm	0.12" 3.0 mm	0.67" 17.0 mm	0.32" x 0.2" 8.0 mm x 5.0 mm	ESD	polyurethane foam

Coventry™ Wrapped Foam ESD Swabs

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
21050ESD	500 swabs	2.8" 7.1 cm	0.10" 2.5 mm	1.08" 27.5 mm	0.14" x 0.14" 3.7 mm x 3.7 mm	ESD	polyurethane foam

Cottontips™ & Cottontips™ Low Lint

Economical swabs designed for general cleaning applications

- 100% pure pharmaceutical grade bleached white cotton head
- Soft and highly absorbent
- Compatible with most solvents
- Available with single or double head
- Rigid wooden handle

Cottontips™ Low Lint:

- Special low lint cotton fibers used for critical, low particle applications

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
Cottontips™ Single-Head							
CT100	100 swabs	6.00" 15.2 cm	0.08" x 0.08" 2.0 mm x 2.0 mm	0.63" 16 mm	0.19" 4.8 mm	wood	cotton
Cottontips™ Double-Head							
CT200	100 swabs	6.00" 15.2 cm	0.08" x 0.08" 2.0 mm x 2.0 mm	0.63" 16 mm	0.19" 4.8 mm	wood	cotton
CT2000	1000 swabs	6.00" 0.08" x 0.08" 15.2 cm	2.0 mm x 2.0 mm	0.63" 16 mm	0.19" 4.8 mm	wood	cotton
Cottontips™ Low Lint							
CT5000	1000 swabs	6.00" 15.2 cm	0.08" x 0.08" 2.0 mm x 2.0 mm	0.63" 16 mm	0.19" 4.8 mm	wood	cotton

Cottontips™ MicroPoint

Low particulate, pointed cotton swab designed for precision applications

- Tightly wrapped head construction
- Small size for delicate precision cleaning
- Extremely low linting
- High absorbency capacity and rate
- Good solvent compatibility
- Sharp point (CCT2425) and combination of sharp and rounded/oval point (CCT2100)
- Non-static generating

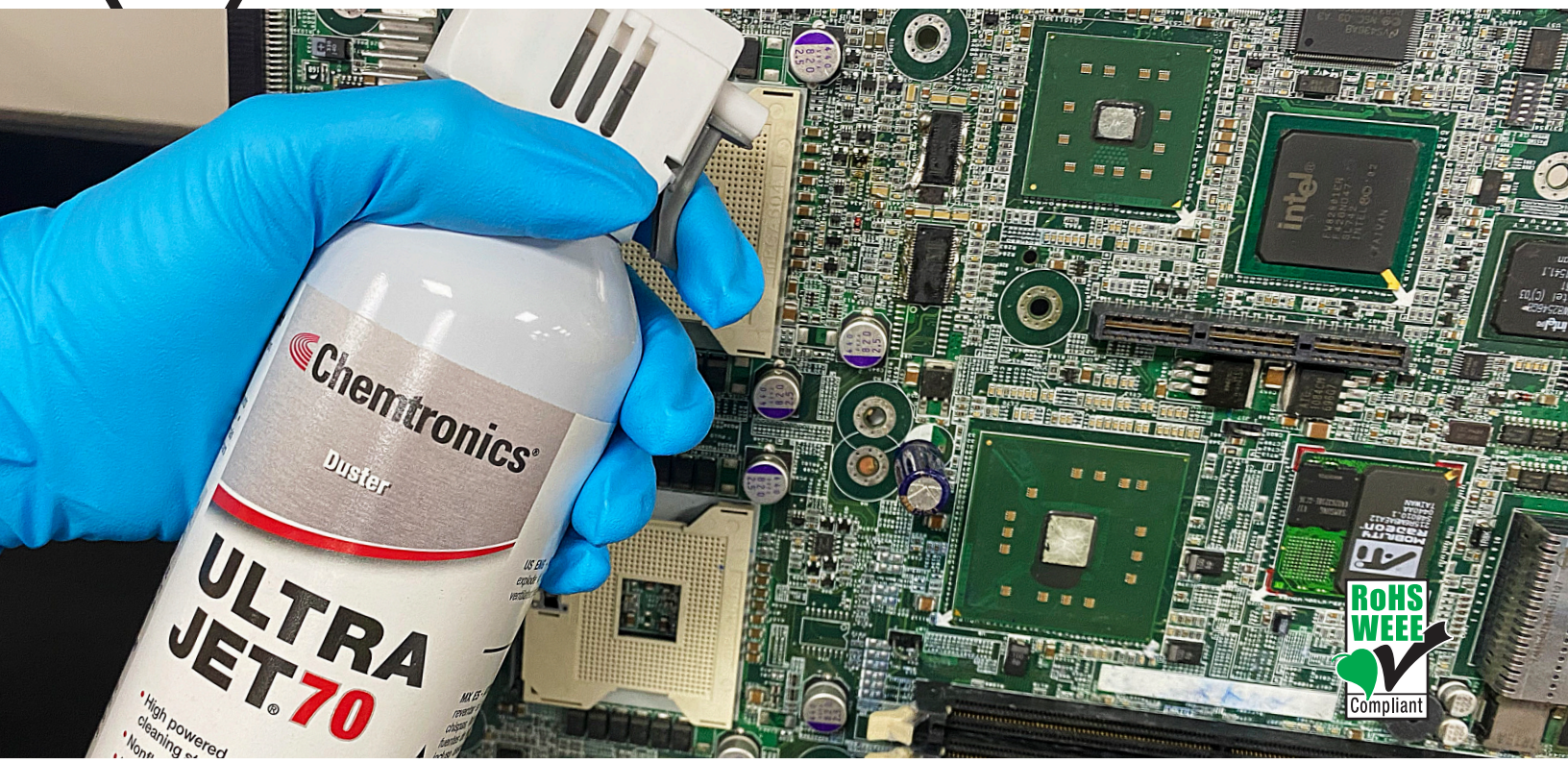
Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
Cottontips™ MicroPoint							
CCT2425	25 swabs	3.0” 7.6 cm	0.06” x 0.06” 1.5 mm x 1.5 mm	0.47” 11.9 mm	0.12” 3.0 mm	Paper composite	cotton

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Width	Handle Material	Head Material
Cottontips™ MicroPoint & Oval							
CCT2100	100 swabs	3.0” 7.6 cm	0.06” x 0.06” 1.5 mm x 1.5 mm	0.47” 11.9 mm	0.12” 3.0 mm	Paper composite	cotton

NEW!

TECH TIP!

Overview of Chemtronics Swabs



Chemtronics® Dusters are microscopically clean, oil and moisture free sources of "canned air" developed for applications where safe, ultra-pure cleaning is required. Compact and portable, Chemtronics dusters deliver powerful jet action to instantly remove particles from even the most inaccessible areas. Economize solvent usage by removing layers of dry particulate, allowing the solvent to work immediately on encrusted soils. Also, accelerate surface drying when using slow evaporating cleaners.

ES1020

Ultrajet®

Duster with the BIGGEST blast to clean anything fast

- Nonflammable
- Highest powered cleaning strength
- Zero VOC
- Filtered to 0.2 microns
- Leaves no residue
- Safe on plastics

ES1020	10 oz / 283 g aerosol

ES1620

Ultrajet® All-Way

Invertable duster with the BIGGEST blast to clean anything fast

All-Way Spray can be sprayed into hard to reach places without the risk of dispensing a liquid spray that can freeze or damage sensitive surfaces.

- Nonflammable
- Highest powered cleaning strength
- Zero VOC
- Filtered to 0.2 microns
- Leaves no residue
- Safe on plastics

ES1620	8 oz / 226 g aerosol

ES1015

Ultrajet® 70

Powerful, economical duster with a BIGGER blast than competitive dusters

- Nonflammable
- High powered cleaning strength
- Bigger blast than competitive dusters
- Zero VOC
- Filtered to 0.2 microns
- Leaves no residue
- Safe on plastics

ES1015	10 oz / 283 g aerosol

Product Selection Guide

		Blasting Power	Nonflammable	All-Way Spray	Major Contents	Force Generated*	Internal Pressure	GWP**	Use On Live Circuits
Ultrajet	ES1020	XX Strength	✓	No	HFC-134a	1.51 N	71 PSIG	1300	Yes
Ultrajet All-Way	ES1620	XX Strength	✓	Yes	HFC-134a	1.78 N	71 PSIG	1300	Yes
Ultrajet 70	ES1015	X Strength	✓	No	HFC-134a	1.35 N	71 PSIG	1300	Yes
Duster	ES1017, ES1617	Regular Strength	✓	No	HFC-134a	0.94 N	71 PSIG	1300	Yes
152A Blast	ES1024	X Strength		No	HFC-152a	1.38 N	63 PSIG	140	No
Typhoon Blast 70	ES1025	X Strength	✓	No	HFO-1234ze	0.93 N	47 PSIG	<1	Yes

* Force generated measured without extension tubes on Shimpo force gauge.

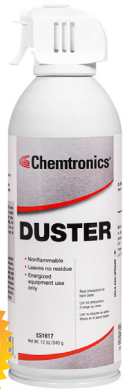
** Global warming potential (GWP) is calculated based on a 100 year time horizon. Carbon dioxide has a GWP of 1.

Duster

Economical, regular strength duster

- Nonflammable
- Regular cleaning strength
- Zero VOC
- Filtered to 0.2 microns
- Leaves no residue
- Safe on plastics

BEST SELLER



ES1617

ES1017	10 oz / 283 g aerosol
ES1617	12 oz / 340 g aerosol

152A Blast™

Economical, extra-strength general purpose duster

- Safe on plastics
- High powered cleaning strength
- Flammable
- Zero VOC
- 1/10th Global Warming Potential of HFC-134a
- PFAS free

Applications:

- Cleaning dust and particles from de-energized electronics
- Maintenance and repair of de-energized computers, postage meters, and servers

ES1029

ES1029	10 oz / 283 g aerosol

Typhoon Blast™ 70 Duster

Powerful and economical, ultra-low GWP duster with the BIGGER blast

- Ultra-Low GWP
- High powered cleaning strength
- Nonflammable
- Zero VOC
- Filtered to 0.2 microns
- Leaves no residue
- Safe on plastics
- PFAS free*

GLOBAL WARMING POTENTIAL <1 GWP

ES1025

ES1025	10 oz. / 383 g aerosol

Ultrajet® Duster System

Reusable duster system with a precision surgical-grade chrome trigger valve

- Nonflammable
- Conductive trigger valve prevents static build-up
- Zero VOC
- Filtered to 0.2 microns
- Leaves no residue
- Safe on plastics

Applications:

- Ground valve for cleaning sensitive electronics
- Cleaning inside electrical cabinets

ES1020K	10 oz / 283 g aerosol kit Contents: ES1020R and ES710V
ES1020R	10 oz / 283 g aerosol refill
ES710V	Chrome Trigger Valve

Chrome trigger can be grounded for static sensitive applications, and fits refill can (ES1020R).

ES1020K

*Non-PFAS US EPA TSCA 8(a)(7)

Chemtronics® Freeze Sprays are exceptionally pure, nonflammable and provide instantaneous freezing action while leaving no residue. Conveniently packaged and designed for either pin-point or full board application, these non-reactive circuit refrigerants vaporize instantly while cooling targeted areas.

ES1050 ES1052 ES1055

Freeze-It®

High-performance, pin-point accurate freeze spray for isolating individual components on PC boards

- Pin-point spray isolates individual components without freezing surrounding areas
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1050	10 oz / 283 g aerosol
ES1550	15 oz / 425 g aerosol

Freeze-It® Antistat

High-performance, pin-point accurate freeze spray that safely cools individual static-sensitive components

- Pin-point spray isolates individual components without freezing surrounding areas
- Ideal for use on static sensitive components
- Non-frosting
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

BEST SELLER

ES1051	10 oz / 283 g aerosol
ES1551	15 oz / 425 g aerosol

Freeze Spray

Economical, general purpose freeze spray with wide spray for cooling entire PC boards

- Wide spray for cooling entire boards
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns

ES1052	10 oz / 283 g aerosol

TECH TIP!
Freeze Spray

Arctic Blast™

Ultra-low GWP freeze spray with pin-point accuracy for isolating individual components

GLOBAL WARMING POTENTIAL <1 GWP

- Ultra-low Global Warming Potential
- Pin-point spray isolates individual components without freezing surrounding areas
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns
- PFAS free*

ES1054	10 oz / 283 g aerosol

Arctic Blast™ Antistat

Ultra-low GWP antistatic freeze spray with pin-point accuracy for isolating individual components

GLOBAL WARMING POTENTIAL <1 GWP

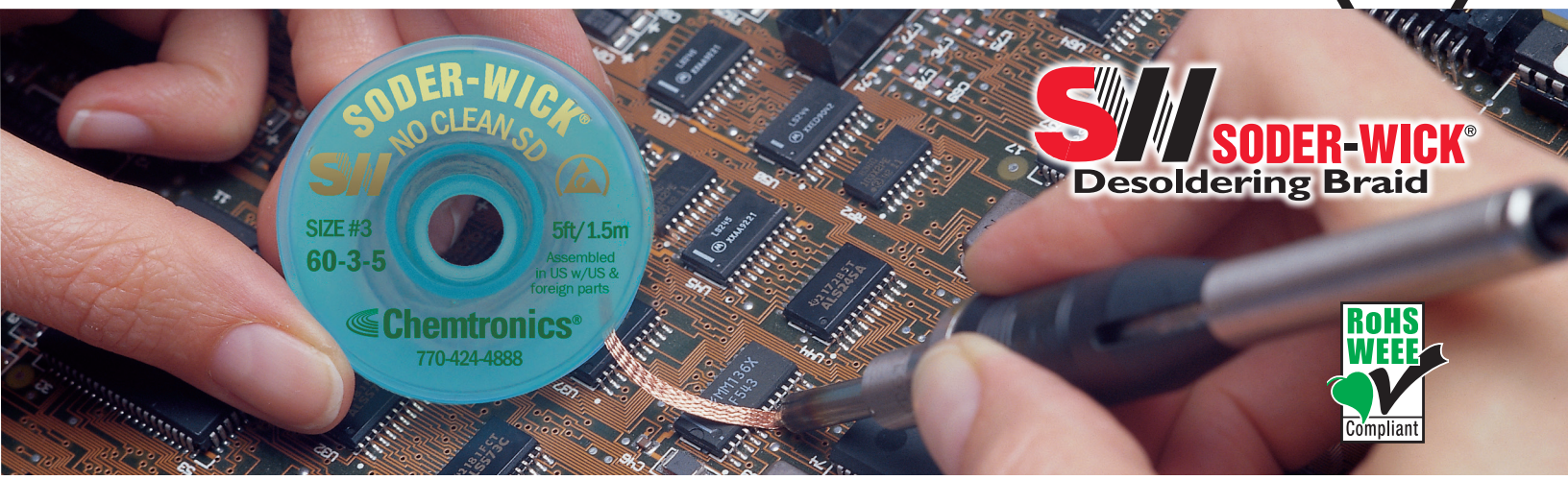
- Ultra-low Global Warming Potential
- Pin-point spray isolates individual components without freezing surrounding areas
- Ideal for use on static sensitive components
- Non-frosting
- Safe on plastics
- Nonflammable
- Filtered to 0.2 microns
- PFAS free*

ES1055	10 oz / 283 g aerosol

Product Selection Guide

Product	Part Number	Application	Global Warming Potential**	VOC (EPA)	Frost Formation	Cooling Speed	Cooling Temperature
Arctic Blast	ES1054	Pin-point	<1	0%	Yes	Fast	-49ºF/-45ºC
Arctic Blast Antistat	ES1055	Pin-point	<1	<1%	No	Fast	-49ºF/-45ºC
Freeze-It	ES1050/ES1550	Pin-point	1300	0%	Yes	Fast	-60ºF/-51ºC
Freeze-It Antistat	ES1051/ES1551	Pin-point	1300	<1%	No	Fast	-60ºF/-51ºC
Freeze Spray	ES1052	Wide Area	1300	0%	Yes	Very Fast	-60ºF/-51ºC

**Non-PFAS US EPA TSCA 8(a)(7) * Global warming potential (GWP) is calculated based on a 100 year time horizon. Carbon dioxide has a GWP of 1.



All Soder-Wick meet these specs:

- MIL-F-14256 F type R flux
- NASA-STD-8739.3 Soldered Electrical Connections
- DOD-STD-883E, Method 2022
- ANSI/IPC J STD-004, Type ROL0

Soder-Wick® Desoldering Braid, the world's leading brand of desoldering braid, is the fastest, cleanest and safest braid in the industry. It significantly reduces rework/repair time and minimizes the risk of heat damage to the board.

Solder-Wick No-Clean and Lead-Free wick meet these specs:

- Meets MIL-STD-883B, Bellcore TR-NWT-000078, ANSI/IPC J SF-818
- Meets parameters tested by the Singapore Institute of Standards and Industrial Research (SISIR) for Solderability
- ANSI/IPC J STD-004, Type ROL0

Product Selection Guide

Product	Size		Color	5' 1.5m *	10' 3.0m *	25' 7.5m	100' 30.5m	500' 152.5m
Soder-Wick® Rosin Fastest wicking action with rosin flux coated desoldering braid (BEST SELLER)	1	.030"/0.8mm	White	80-1-5	80-1-10	50-1-25		
	2	.060"/1.5mm	Yellow	80-2-5	80-2-10	50-2-25	50-2-100	50-2-500
	3	.080"/2.0mm	Green	80-3-5	80-3-10	50-3-25	50-3-100	
	4	.110"/2.8mm	Blue	80-4-5	80-4-10	50-4-25	50-4-100	
	5	.145"/3.7mm	Brown	80-5-5	80-5-10	50-5-25		
	6	.210"/5.3mm	Red	80-6-5		50-6-25		
Soder-Wick® No-Clean Cleanest, leaving behind no ionic residue, with no-clean flux coated desoldering braid	1	.030"/0.8mm	White	60-1-5	60-1-10			
	2	.060"/1.5mm	Yellow	60-2-5	60-2-10			
	3	.080"/2.0mm	Green	60-3-5	60-3-10			
	4	.110"/2.8mm	Blue	60-4-5	60-4-10			
	5	.145"/3.7mm	Brown	60-5-5	60-5-10			
	6	.210"/5.3mm	Red	60-6-5				
Soder-Wick® Lead-Free Safest on thermally sensitive components, with this specially engineered no-clean flux coated desoldering braid	1	.030"/0.8mm	White	40-1-5				
	2	.060"/1.5mm	Yellow	40-2-5	40-2-10			
	3	.080"/2.0mm	Green	40-3-5	40-3-10			
	4	.110"/2.8mm	Blue	40-4-5	40-4-10			

**Offered in static dissipative (ESD-safe) bobbins:*

- DOD Standard 1686C and MIL-HDBK-263B
- Mil-Std-2000A
- Mil-B-81705C Static Decay Rate Provision
- 5' and 10' packaged 25 bobbins per sleeve

TECH TIP!

How to Use Chemtronics Soder-Wick

SODER-WICK®
Desoldering Braid

Product Selection Guide

Product	Size		Color	10' 3.0m *	25' 7.5m
Soder-Wick® Unfluxed Unfluxed desoldering braid which can be coated with any flux type	2	.060"/1.5mm	Yellow	75-2-10	70-2-25
	3	.080"/2.0mm	Green	75-3-10	70-3-25
	4	.110"/2.8mm	Blue	75-4-10	

Desoldering Braid Product Application Guide

#1 White/Gray	#2 Yellow	#3 Green
0.03" (±0.01mm)	0.05" (±0.01mm)	0.07" (±0.01mm)
#4 Blue	**#5 Brown**	**#6 Red**
0.10" (±0.01mm)	0.130" (±0.01mm)	0.200" (±0.01mm

Wick shown actual size

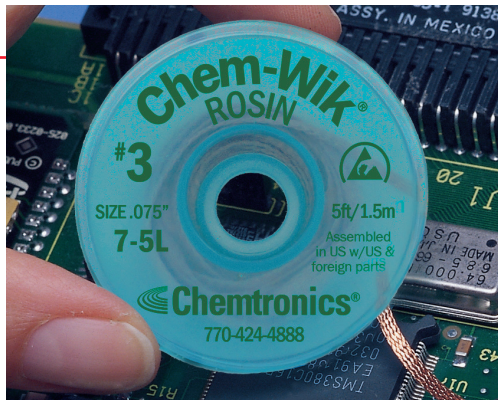
Size		Color	Application
1:	0.03" (±0.01mm)	White / Gray	SMD, Micro-Circuits
2:	0.05" (±0.01mm)	Yellow	Small Pads, SMDs
3:	0.07" (±0.01mm)	Green	Medium Pads
4:	0.10" (±0.01mm)	Blue	Large Pads
5:	0.130" (±0.01mm)	Brown	Terminals
6:	0.200" (±0.01mm)	Red	Large Lugs

Chem-Wik® Desoldering Braid

Chem-Wik® Desoldering Braid ensures fast and safe desoldering with an ultra-pure, oxygen free copper braid that quickly and completely removes solder from circuit boards and components. Its fast wicking action protects components from harmful heat damage.

Chem-Wik® Desoldering Braid meets or exceeds industry performance standards:

- MIL-F-14256F Type R
- NASA STD-8739.3 Soldered Electrical Connections
- ANSI/IPC J STD-004, Type ROL0
- DOD-STD-883E, Method 2022



Product Selection Guide

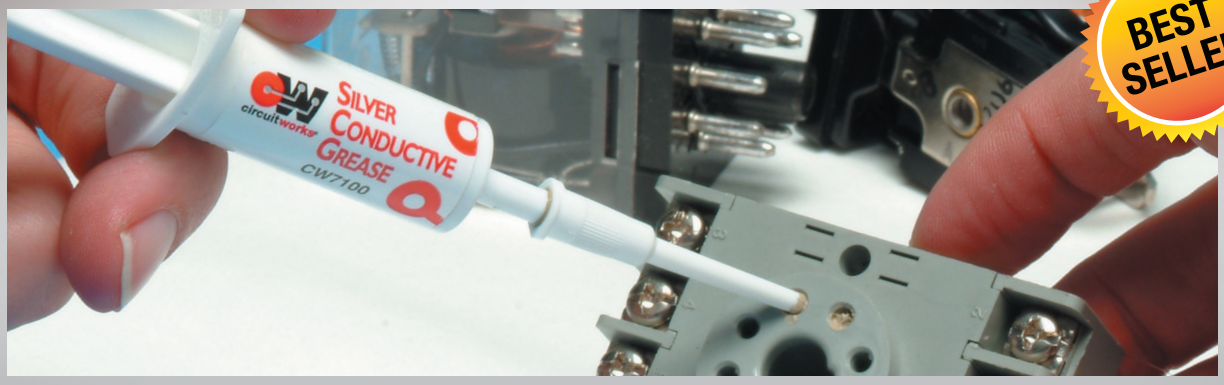
Product	Size		Color	5' 1.5m *	25' 7.5m	50' 15.0m	100' 30.5m	500' 152.5m
Chem-Wik® Rosin Fast wicking action with rosin flux coated desoldering braid	1	.030"/0.8mm	Gray	2-5L	2-25L	2-50L	2-100L	
	2	.050"/1.3mm	Yellow	5-5L	5-25L	5-50L	5-100L	5-500L
	3	.075"/1.9mm	Green	7-5L	7-25L	7-50L	7-100L	7-500L
	4	.100"/2.5mm	Blue	10-5L	10-25L	10-50L	10-100L	10-500L

Offered in static dissipative (ESD-safe) bobbins:

- Reduces the risk of damage associated with static electricity
- DOD Standard 1686C and MIL-HDBK-263B
- Mil-Std-2000A
- Mil-B-81705C Static Decay Rate Provision
- 5' and 10' packaged 25 bobbins per sleeve

Conductive Grease

BEST SELLER



CircuitWorks® Silver Conductive Grease

Grease for superior electrical and thermal conductivity, lubrication and protection

- Fills connector gaps to maximize electrical and thermal conductivity
- Protects against moisture and corrosion
- Thermally stable from -70°F/-57°C to 485°F/252°C
- Conductive lubricant containing pure silver
- Controls static discharge
- Grounds circuits

CW7100	6.5 g / 0.23 oz

Thermal Compounds

For fast, efficient heat transfer between circuit components and heat sinks.

CircuitWorks® Boron Nitride Heat Sink Grease

Ultra-high efficiency, thermally conductive grease

- Provides maximum thermal conductivity with superior dielectric properties
- Silicone free compound will not harden or dry out
- Electrically insulative; noncorrosive and nonflammable
- Thermal conductivity 1.85 W/m°K
- Thermally stable from -99.4ºF/-73ºC to 392ºF/200ºC
- Exceeds MIL-C-47113 for thermal conductivity

CW7250	3.4 g / 0.12 oz

CW7250

CircuitWorks® Silicone Free Heat Sink Grease

Non-contaminating silicone free heat-sink grease

- Silicone free compound will not harden or dry out
- Excellent thermal conductivity and dielectric properties
- Non-corrosive
- Thermal conductivity 0.71 W/m°K
- Thermally stable from -99ºF/-73ºC to 603ºF/317ºC
- Exceeds MIL-C-47113 for thermal conductivity

CW7270	8 g / 0.28 oz

CW7270

CircuitWorks® Heat Sink Grease

Silicone compound for heat transfer away from electronics and electrical components

- Excellent thermal and dielectric properties
- Will not dry out, harden or melt
- Noncorrosive and nonflammable
- Thermal conductivity 0.63 W/m°K
- Thermally stable from -40°F(-40°C) to 392°F (200°C)

CT40-5	142 g / 5 oz

CT40-5

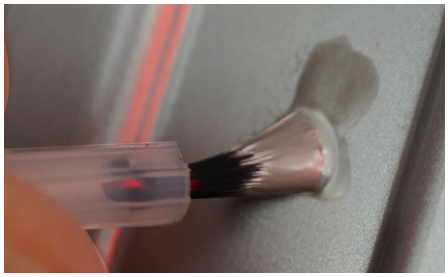
TECH TIP!

Circuit-Works Thermal Paste

Conductive Ink

Conductive Ink Applications:

- Repairs traces
- Links components
- Makes smooth jumpers
- Shields electronics



CircuitWorks® Conductive Paint

Paint kit for fine conductive traces or painting over large areas

- Quickly creates highly conductive silver traces
- Superior electrical conductivity
- Dries in minutes at room temperature
- Includes 1 pick, 2 lint-free swabs and 2 brushes

CW2205	5 g / 0.18 oz

CircuitWorks® comprehensive line of conveniently packaged and precision dispensing rework and repair products makes circuit board repair and prototyping faster, easier and more accurate. Advanced-formula materials packaged in unique delivery systems ensure superior performance and pinpoint accuracy. The full range of products meets all of a technician's needs for electronics rework and prototyping — repairing, cleaning, protecting, bonding and restoring electrical conductivity to circuit boards and components.

All CircuitWorks® products are compliant with IPC-7711 Rework of Electronic Assemblies, and ANSI/J-STD-001.

Protective Overcoats

CW3300G

CircuitWorks® Overcoat Pen

Pen dispenser for precise application of a tough protective acrylic conformal coating

- Simple to use, single component system
- Hard, durable coating
- High dielectric strength helps prevent electrical discharge
- Dries quickly at room temperature
- Protects against moisture and abrasion damage
- Meets MIL-I-46058C and IPC-CC-830A

Applications:

- Insulates and protects conductive pen traces
- Repairs permanent solder mask
- Prevents shorting and arcing

BEST SELLER

CW3300C	Clear	4.9 g / 0.16 oz
CW3300G	Green	4.9 g / 0.16 oz
CW3300B	Blue	4.9 g / 0.16 oz
CW3300BLACK	Black	4.9 g / 0.16 oz
CW3300WHITE	White	4.9 g / 0.16 oz

CircuitWorks® Conductive Pen

Pen dispenser for drawing highly conductive silver traces, jumpers and shielding with precision and control

- Quickly creates highly conductive silver traces
- Valved pen tip for easy applications
- Solderable at low temperatures
- Dries in minutes at room temperature
- Choice of Micro Tip for fine lines or Standard Tip for wider lines

CW2200STP	Standard Tip	8.5 g / 0.3 oz
CW2200MTP	Micro Tip	8.5 g / 0.3 oz

Standard Tip

Micro Tip

CW2200MTP

CircuitWorks® Nickel Conductive Pen

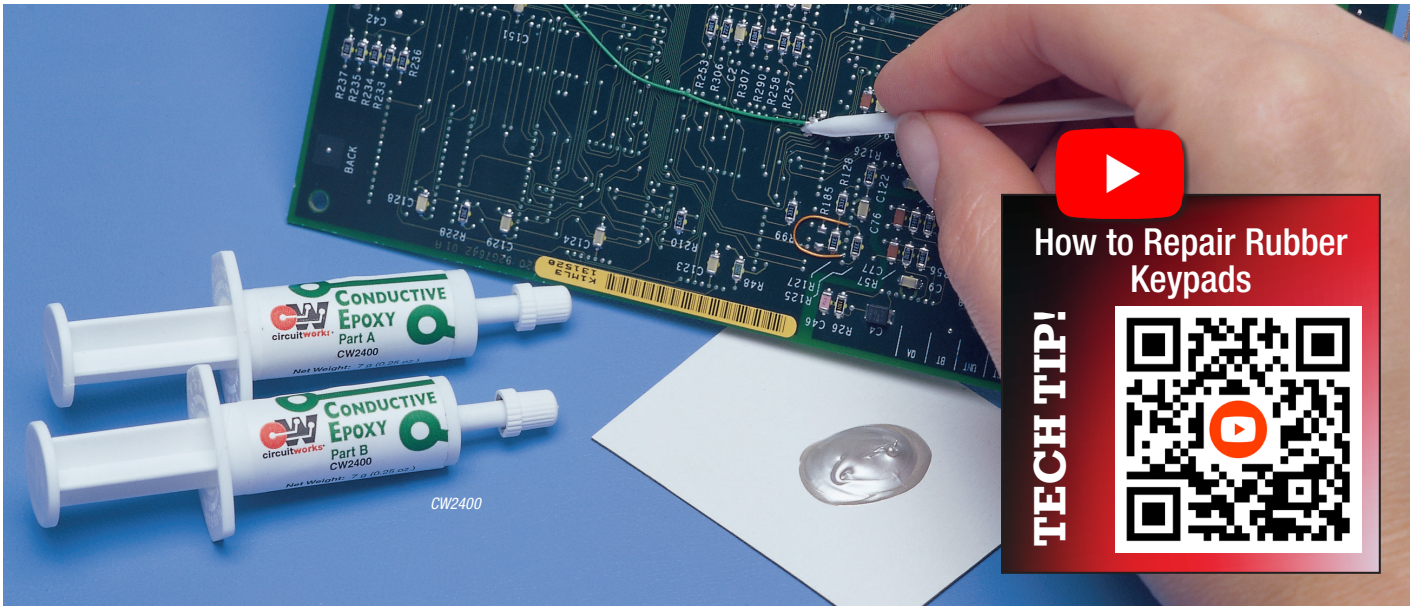
Pen dispenser for economically drawing conductive traces, jumpers and shielding

- Quickly creates conductive nickel traces on most surfaces
- Easy and economical to use
- Valved pen tip for easy applications
- Dries in minutes at room temperature

CW2000	Standard Tip	8.5 g / 0.3 oz

PCB Repair Pens

TECH TIP!



Conductive Epoxies

Conductive Epoxy Applications:

- Repair traces and temperature sensitive circuits
- Make high-strength solderless conductive connections
- Die attachment
- Thermal dissipation
- Static discharge and grounding

CircuitWorks® Conductive Epoxy

BEST SELLER

Epoxy for precision repairs and high-strength conductive bonding

- Conductive silver epoxy provides excellent electrical conductivity
- High strength conductive bond with a five minute work time
- Repairs defective traces and creates jumpers on boards
- Quick solderless electronic connections

CW2400	Adhesive Hardener	7 g / 0.25 oz 7 g / 0.25 oz

CircuitWorks® 60 Minute Conductive Epoxy

Epoxy system with extended pot life for high strength conductive bonds

- Conductive silver epoxy provides excellent electrical conductivity
- Sixty minute work time provides a high strength conductive bond
- Extended pot life provides increased work time
- Repairs defective traces and creates jumpers on boards
- Quick solderless electronic connections

CW2460	Adhesive Hardener	10 g / 0.35 oz 10 g / 0.35 oz in jars

BEST SELLER

CircuitWorks® Rubber Keypad Repair Kit

Conveniently-sized kit for permanent repair of rubber keypads

- Restores electrical conductivity to worn carbon contacts
- Forms a tough, flexible, wear-resistant surface
- Repairs over 50 rubber button contacts

Applications:

- Restores rubber and telephone keypads
- Restores flexible carbon contacts

CW2605	Adhesive Curing Agent	3 g / 0.1 oz 0.3 g / 0.01 oz

Flux / Solder

CircuitWorks® Flux Dispensing Pens

Pen for applying flux with precision and control

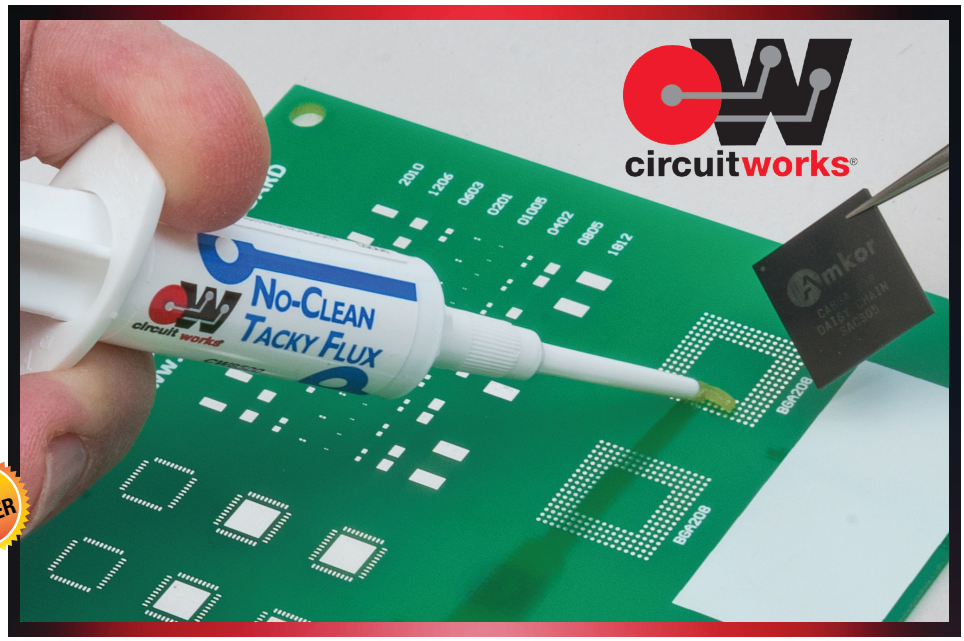
- Chisel tip marker provides exact delivery of flux to surface
- Easily removed with appropriate CircuitWorks® Flux Remover Pen

No-Clean Flux Dispensing Pen

- Applies a patented noncorrosive, halide free, no-clean flux
- Flux meets Bellcore TR-N-NWT-000078 and IPC SF-818 for Surface Insulation Resistance
- Flux meets ANSI/IPC J-STD-004, Type ROL0

BEST SELLER

CW8100	9 g / 0.32 oz
CW8100BLK50	Box of 50 pens, 9 g each



Lead-Free Flux Dispensing Pen

- Applies a noncorrosive, halide free, no-clean flux for high temperature, lead-free application
- Can also be used for tin/lead solders
- Flux meets Bellcore TR-N-NWT-000078 and IPC SF-818 for Surface Insulation Resistance
- Flux meets ANSI / IPC J-STD-004, Type ROL0
- Easily removed with Lead-Free Flux Remover Pen, or Flux-Off® Lead-Free Flux Remover

BEST SELLER

CW8400	9 g / 0.32 oz
CW8400BLK50	Box of 50 pens, 9 g each

CW8400

Rosin Flux Dispensing Pen

- Applies a noncorrosive, nonconductive Type R flux
- Flux meets MIL-F-14256 F Type R and ANSI/IPC J-STD-004, Type ROL0

CW8200	9 g / 0.32 oz

Water Soluble Flux Dispensing Pen

- Applies a neutral pH organic water soluble flux for rapid soldering
- Flux meets ANSI/IPC J-STD-004, ORH1 Classification
- Easily removed with water or Flux-Off® Water Soluble (pg. 12)

CW8300	9 g / 0.32 oz

CircuitWorks® Tacky Flux

Conveniently packaged flux gel formulated for easy SMT rework

- Formulated for No-Clean applications
- Syringe applicator provides exact delivery of flux
- Long tack time, extended shelf life
- No refrigeration required
- Noncorrosive, halide and halogen free
- Meets IPC requirements for ROL0, No-Clean
- Conforms to ISO 9454
- Meets Bellcore TR-NWT-000078 requirements
- Meets DIN EN 29454-1 1.1.3.C classification

Lead-Free

CW8700	3.5 g / 0.12 oz

No-Clean

CW8500	3.5 g / 0.12 oz

CW8700

CW8500

CircuitWorks® Lead-Free Pocket Solder

Lead-free, high purity pocket sized solder dispenser for convenient rework and repair

- SAC 305 for soldering lead-free applications
- 96.5% Tin (Sn), 3.0% Silver (Ag), 0.5% Copper (Cu)
- Type ROL0 flux per IPC J-STD-004
- Ensures even, reliable solder connections
- Cleans and wets heavily tarnished copper surfaces

S200	1.0 mm / 0.04" Diameter, 3.18 m / 125" Length

Cleaning and Lubricating Pens

CircuitWorks® Conformal Coating Remover Pen

Pen for precise removal of silicone, acrylic and urethane coatings from PCBs

- Spot cleans tight tolerance areas on circuit boards
- Marker dispenser provides controlled and exact application
- Evaporates quickly
- Provides low surface tension for superior wetting
- Low VOC content

BEST SELLER

CW3500	9 g / 0.32 oz

CircuitWorks® Gold Guard™ Pen

Pen for cleaning and lubricating gold and other noble metal contacts and connectors

- Cleans and leaves protective polyphenyl ether lubricant in one step
- Extends life of noble metal contacts
- Chisel tip marker for exact delivery to the contact
- Safe on plastics

CW7400	8.5 g / 0.3 oz

CircuitWorks® Flux Remover Pen

Pen for precise removal of flux from printed circuit boards

- Completely removes flux in seconds
- Spot cleans tight tolerance areas on circuit boards
- Marker dispenser provides controlled spot cleaning
- Dries fast

No-Clean Flux Remover Pen

CW9100	9 g / 0.32 oz

Rosin Flux Remover Pen

CW9200	8 g / 0.28 oz

Lead-Free Flux Remover Pen

CW9400	9 g / 0.32 oz

CircuitWorks® The Mighty Pen®

Powerful universal cleaning pen

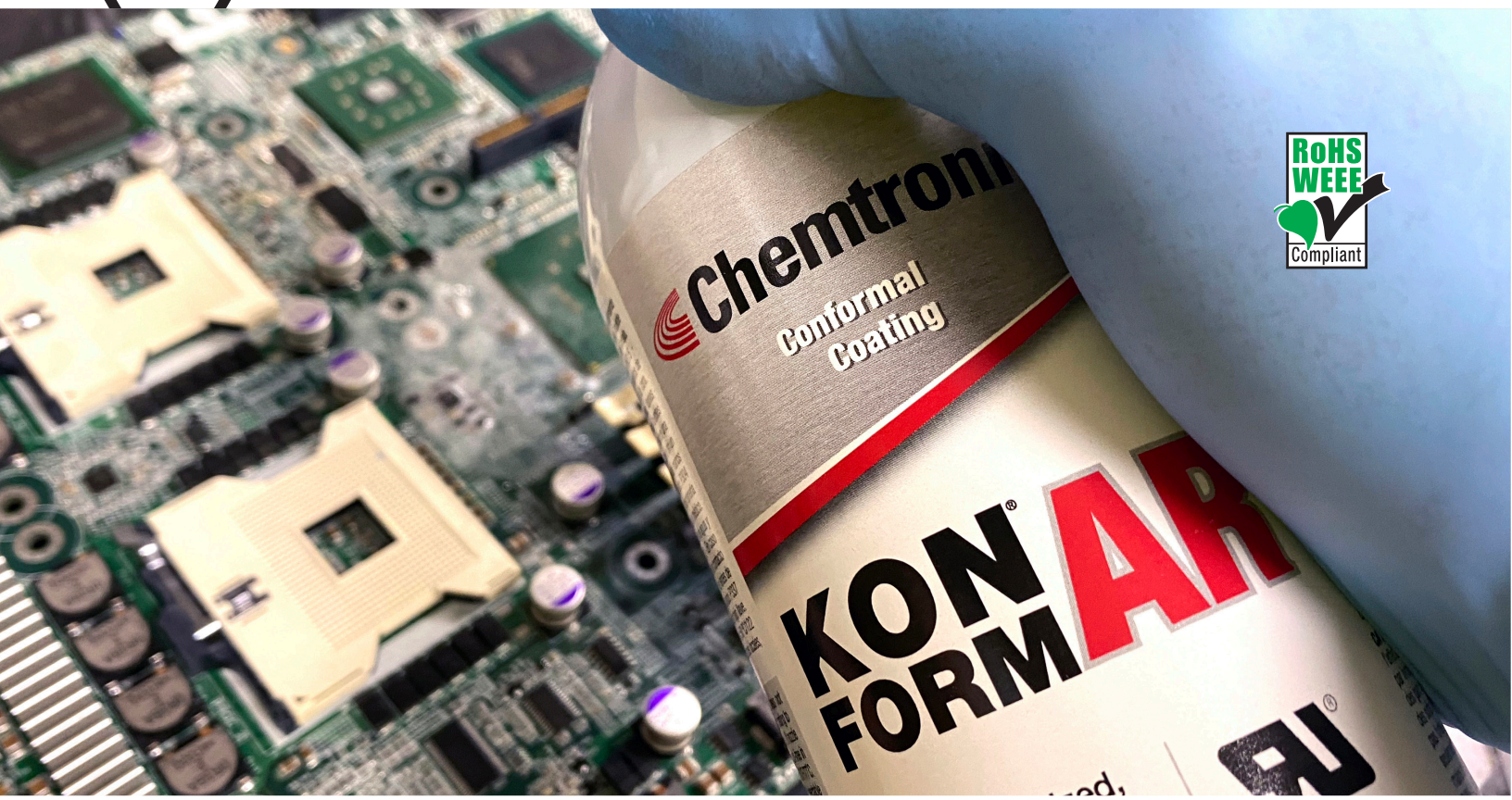
- Outstanding cleaning ability
- Marker dispenser provides controlled and exact application
- Mild citrus aroma
- U.S. Patent 6,677,291 and 6,677,292, and foreign patents

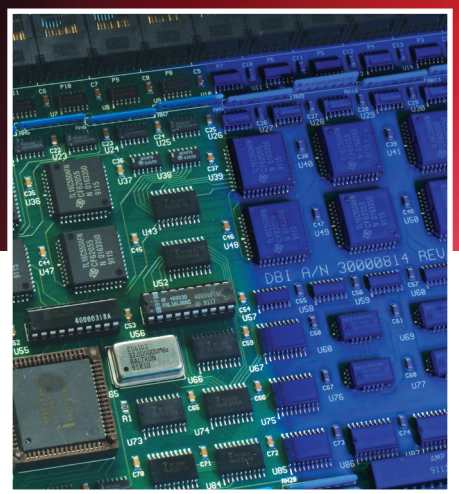
Applications:

- General purpose cleaning and refurbishing of equipment
- Removes ink stains, label adhesives, and difficult to remove soils

CW3700	11 g / 0.39 oz

circuitworks®





All Konform® coatings contain a UV indicator for improved quality assurance.

Konform® Conformal Coatings are used to protect printed circuit boards, components and flex circuitry. These coatings provide excellent electrical insulation and withstand hot and cold operating environments, as well as heat generated by electronic circuitry. Formulated to protect components and circuits in the most demanding of environments, all Konform® conformal coatings contain a UV indicator for easy quality assurance. These tough, transparent coatings will not chip or crack, thereby providing excellent protection. All are convenient and ready to use.

Konform® AR

Acrylic coating for effective insulation against high voltage arcing and shorts

- Acrylic coating working temperature from -75ºF/-59ºC to 270ºF/132ºC
- High dielectric breakdown of 8300 volts/mil
- Compliant to IPC-CC-830A
- Designed to provide effective insulation against electrical shorts and harsh environments
- Provides excellent acid resistance
- Easily repairable
- Contains UV Tracer for easy quality control
- UL recognized
- Coverage (@1mil dry):
  Aerosol (1 can) 20 ft^2 / 1.9 m^2
  Liquid (1 gal.) 254 ft^2 / 23.6 m^2

CTAR-12	11.5 oz / 326 g aerosol
CTAR-1	1 gal / 3.7 L liquid

CTAR-1 *CTAR-12*

Product Selection Guide

	Resistance					Underwriters Laboratories			Coating Characteristics							Cure Profile	
	Temperature Resistance	Abrasion Resistance	Acid Resistance	Solvent Resistance	Humidity Resistance	Water Submersible Per UL	UL Recognized	UV Traceable	System	Viscosity (Liquid)	Flexibility	Solderability	Repairability	Dielectric Breakdown	Working Temperature	Tack Free Time	Full Cure Time
Konform SR CTSR-12/CTSR-P/ CTSR-1/CTSR-5	1	4	2	2	1	✓	✓	✓	Solvent	40 cps	1	4	3	1100	-85F to 390º (-65ºC to 200º)	15 min.	24 hrs. @RT
Konform SR Med. Viscosity CTSR-MV5	1	4	2	2	1	✓		✓	Solvent	60 cps	1	4	3	1100	-85F to 390º (-65ºC to 200º)	15 min.	24 hrs. @RT
Konform SR High Viscosity CTSR-HV1	1	4	2	2	1	✓		✓	Solvent	120 cps	1	4	3	1100	-85F to 390º (-65ºC to 200º)	15 min.	24 hrs. @RT
Konform AR CTAR-1/CTAR-12	2	1	1	3	1		✓	✓	Solvent	70 cps	4	3	4	8300	-75F to 270º (-59ºC to 132º)	30 min.	24 hrs. @RT

1 – Outstanding 2 – Excellent 3 – Good 4 – Fair NA – Not Available

Konform® SR

Silicone coating for maximum flexibility and protection from extreme temperatures and vibration damage

- Silicone coating working temperature from -85ºF/-64ºC to 390ºF/200ºC
- High dielectric breakdown of 1100 volts/mil
- Easily removed with Electro-Wash® Two Step, Electro-Wash® NXO or CircuitWorks® Conformal Coating Remover Pen
- Compliant to IPC-CC-830A
- Engineered for applications where flexibility and high temperature resistance are required
- Contains UV Tracer for easy quality control
- UL recognized (standard viscosity only)
- Coverage (@1mil dry):
  Aerosol (1 can) 21 ft^2 / 2 m^2
  Liquid (1 gal.) 251 ft^2 / 23.3 m^2

BEST SELLER

CTSR-12	10 oz / 283 g aerosol
CTSR-P	16 fl oz / 473 ml liquid
CTSR-1	1 gal / 3.7 L liquid
CTSR-5	5 gal / 19 L liquid

Medium Viscosity

- Coverage (@1mil dry): 479 ft^2 / 44.5 m^2

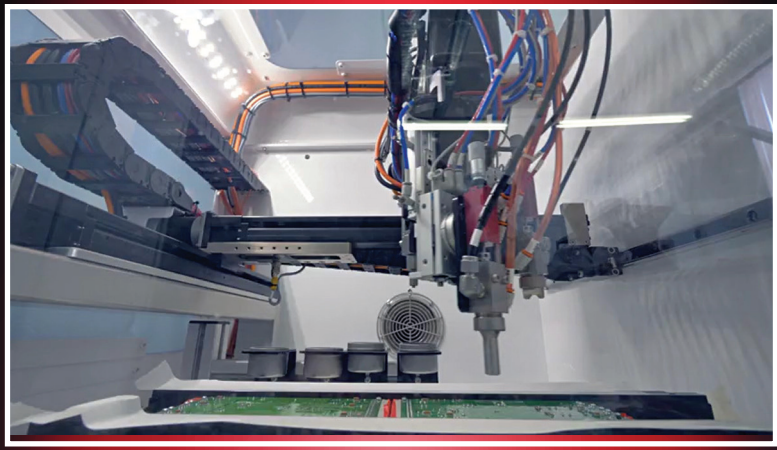
BEST SELLER

CTSR-MV5	5 gal / 19 L liquid

High Viscosity

- Coverage (@2mil dry): 719 ft^2

CTSR-HV1	1 gal / 3.7 L liquid

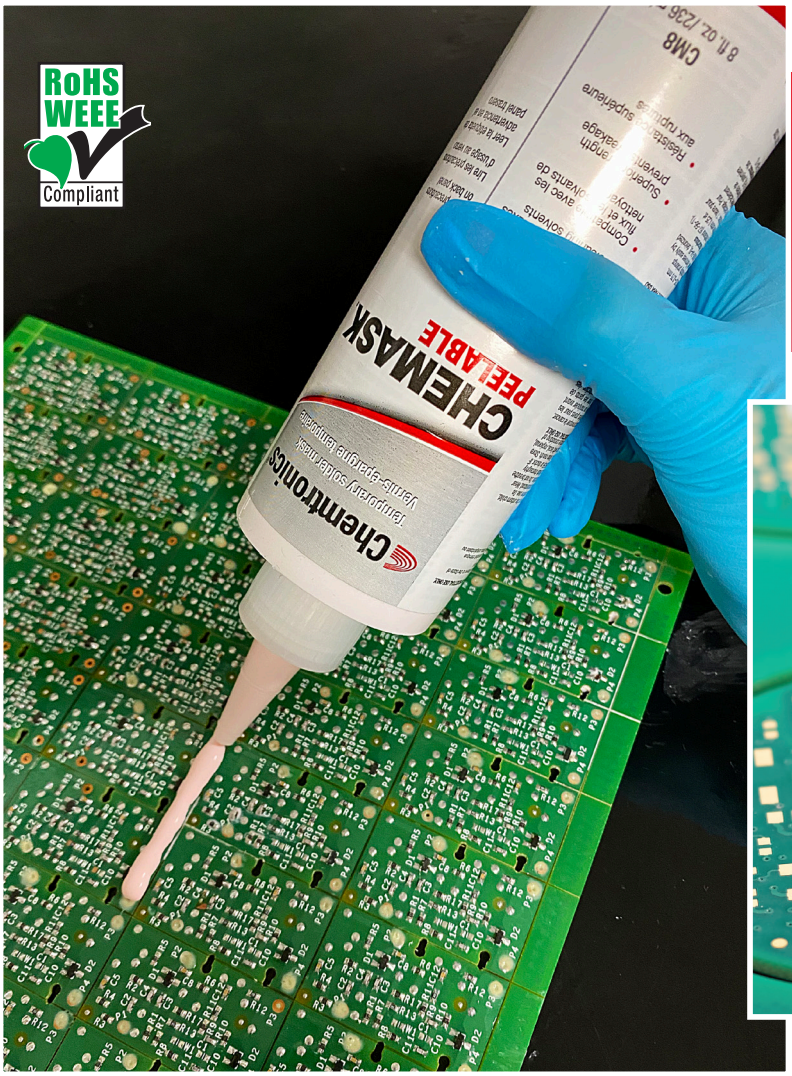


Chemtronics PVA selective spray for conformal coating application

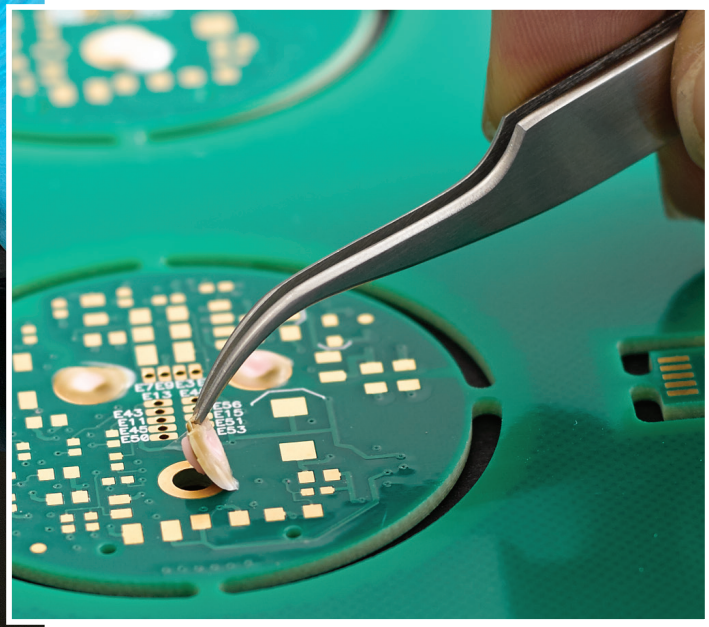
CTSR-1

CTSR-12

CTSR-5



Chemask® Temporary Solder Masks protect PC boards, plated thru-holes, contacts, pins, posts, terminals and gold fingers during reflow and wave soldering. They provide short-term high-temperature protection from molten solder to a minimum of 515ºF/268ºC. All products are nonflammable, non-contaminating and will not leave ionic or corrosive residue. Use as a protective mask during conformal coating process.



Chemask® — Peelable

Fast curing, peelable temporary solder masking agent

- Dries tack-free in 15 minutes
- Easy to use — just peel off dried Chemask® masking agent
- Latex material is compatible with all flux systems and stable with cleaning solvents

BEST SELLER

CM8	8 fl oz / 236 ml liquid squeeze bottle
CM1	1 gal / 3.7 L liquid

Chemask® LF — Lead-Free

High temperature, peelable temporary mask ideal for lead-free applications

- Formulated for use with lead-free applications
- Can also be used with tin/lead solders
- Usable within five minutes of application with preheat cycles
- Provides short-term high temperature protection up to 550ºF / 288ºC

CLF8	8 fl oz / 236 ml liquid squeeze bottle

TECH TIP!

Mask Selection Guide

Product Selection Guide

	Product Characteristics						Application Methods			Removal Methods	
	Safe for Sensitive Metal Surfaces	Tack Free Time @ Room Temperature	Full Cure Time @ Room Temperature	Preheat Activated	Flux Resistance	Solvent Resistance	Automated Dispenser	Stencils	Screens	Peelable	Water Washable Open Loop/Closed Loop
Chemask Peelable CM8/CM1	NR	15 min.	30 min.	NA	All types	All types	Yes	No	No	Yes	No
Chemask LF Lead-Free CLF8	NR	15 min.	30 min.	Yes; 4 min. full cure	All types	All types	No	No	No	Yes	No
Chemask HV High Viscosity CHV8	Yes	15 min.	30 min.	Yes; 4 min. full cure	All types	All types	No	No	No	Yes	No
Chemask WF Water Filterable CWF8	No	30 min.	60 min.	NA	Not compatible with water-based flux	Remove with water and water-based cleaners	Yes	Yes	Yes	No	Yes

NA – Not Available NR – Not Recommended

CWF8

Chemask® WF — Water Filterable

Low-foaming, water filterable temporary solder masking agent

- Easily removed in water cleaning cycles
- Does not coat filtration equipment
- Noncorrosive; safe for sensitive contacts
- Removed with inexpensive filters, increasing the life span of activated carbon/resin beds
- US Patent Number 6,207,265

Applications:

- Ideal for use with closed loop cleaning systems
- Increases productivity by reducing cleaning system maintenance
- Short-term high-temperature protection from molten solder to 515ºF / 268ºC

CWF8	8 fl oz / 236 ml liquid squeeze bottle

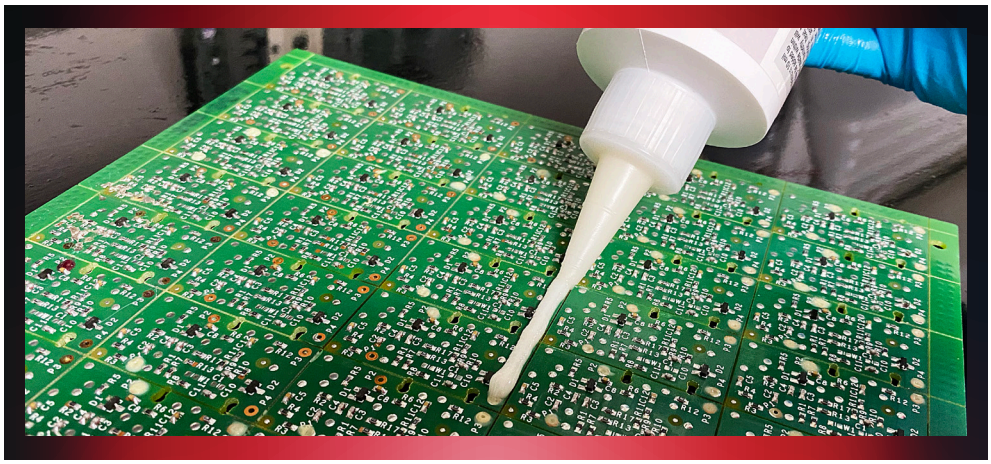
CHV8

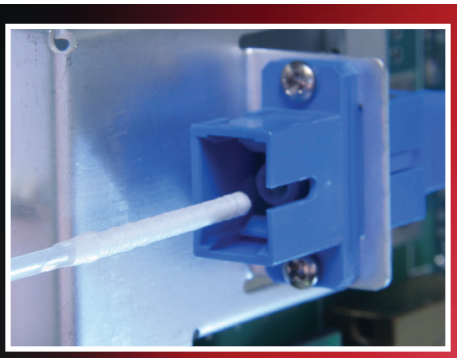
Chemask® HV — High Viscosity

High viscosity, peelable temporary solder masking agent

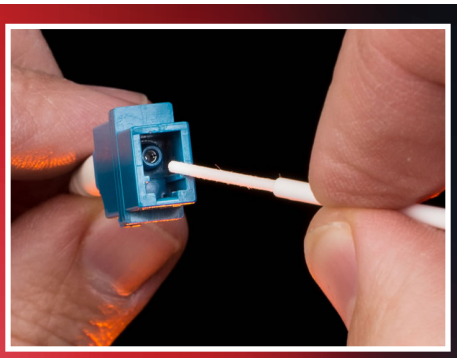
- Usable within five minutes of application with preheat cycle
- More controlled application
- Thicker coating does not seep through thru-holes
- Latex material is compatible with all flux systems and stable with cleaning solvents

CHV8	8 fl oz / 236 ml liquid squeeze bottle




25183

48040


25123X

2.5mm Precision Fiber Optic Swabs

Ideal precision cleaning swab for cleaning 2.5 mm fiber optic connectors

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
25183	100/bag	6.0”/ 15.2 cm	0.08”/ 2.0 mm	1.0”/ 2.5 cm	0.10”/ 2.5 mm	0.10”/ 2.5 mm	Polypropylene	Proprietary Foam Material

2.5 mm Fiber Optic Foam Swab

Versatile, effective and cost-efficient swab for cleaning end faces and equipment test ports

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
48040	500/bag	2.7”/6.8 cm	0.09”/2.2 mm	0.41”/10.5 cm	0.10”/2.5 mm	0.12”/3.0 mm	Polypropylene	Polyurethane Foam
48042F	50/tube	2.7”/6.8 cm	0.09”/2.2 mm	0.41”/10.5 cm	0.10”/2.5 mm	0.12”/3.0 mm	Polypropylene	Polyurethane Foam

1.25mm Fiber Optic Sleeve Cleaning Swab

Ideal tool for cleaning 1.25 mm fiber optic sleeves, back plane connections and polishing pucks

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
25123X	100/bag	6.0”/15.2 cm	0.08”/2.0 mm	0.67”/1.7 cm	0.05”/1.25 mm	0.05”/1.25 mm	Polypropylene	Proprietary Polyester
25125F	15/tube	6.0”/15.2 cm	0.08”/2.0 mm	0.67”/1.7 cm	0.05”/1.25 mm	0.05”/1.25 mm	Polypropylene	Proprietary Polyester

V-Groove & Ferrule Cleaning Swabs

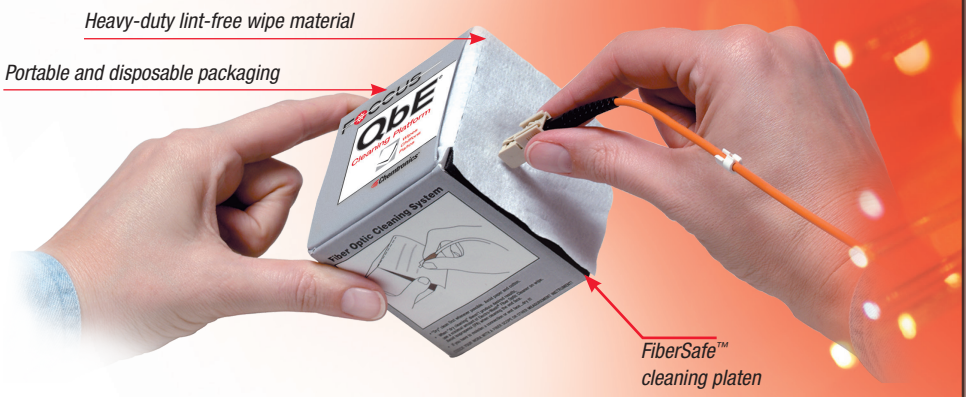
Swab for V-groove and ferrule cleaning

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
38540	500/bag	2.7”	0.09”	0.46”	0.04”	0.12”	Polypropylene	Nonwoven
38542F	50/tube	6.9 cm	2.3 mm	11.7 mm	1.0 mm	3.0 mm	Flexible Tip	Polyester

Fusion Splice Mirror Cleaning Swabs

Cleanroom laundered fabric formed into a unique tool for fusion splice mirror cleaning

Product	Pkg Count	Swab Length	Handle Width	Head Length	Head Thickness	Head Width	Handle Material	Head Material
51121	25/bag	2.8”/7.1 cm	0.10”/2.5 mm	0.40”/10.2 mm	0.25”/6.5 mm	0.23”/5.7 mm	Glass Filled Nylon	Knit Polyester
51125F	15/tube	2.8”/7.1 cm	0.10”/2.5 mm	0.40”/10.2 mm	0.25”/6.5 mm	0.23”/5.7 mm	Glass Filled Nylon	Knit Polyester



QbE® Cleaning Platforms

Portable, efficient wiping platform for cleaning fiber optic end faces

QbE® Cleaning Platforms offer a more complete removal of microscopic contaminants, without the chance of damage to the optical fiber end face. Self-contained cleaning tools that can be used dry or wet and are convenient and economical for use in field or OEM applications.

- Complete Fiber Optic Cleaning System — no refills to buy or investment in expensive mechanisms to maintain
- Up to 600 cleaning applications using the Combination Cleaning™ process
- Provides the optimum cleaning surface – FiberSafe™ cleaning platen is perfect for outside plant or OEM applications
- Heavy duty lint-free wiping material — tough enough to remove buffer-gel and heavy soils, yet soft and compliant for safe end face cleaning
- Patented — U. S Patent Number 6,865,770 and foreign patents

QbE – Cleaning Platform for LC, SC, ST & FC Connectors

BEST SELLER

QbE	200 perforated wipes per box 2.75” x 3” / 7.0 cm x 7.6 cm

QbE-R Cleaning Platform for LC, SC, ST & FC Connectors

Cleaning surface is grooved for alignment pins on MT and MPO connectors.

QbE-R	200 perforated wipes per box 2.75” x 3” / 7.0 cm x 7.6 cm

PQbE - Cleaning Platform for LC, SC, ST & FC Connectors

Cleaning surface is grooved for alignment pins on MT and MPO connectors.

PQbE	200 perforated wipes per box 1.375” x 3” / 3.6 cm x 7.6 cm

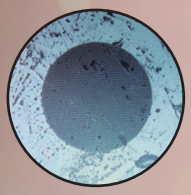
QbE-2 - Cleaning Platform for LC, SC, ST & FC Connector

QbE-2	200 perforated wipes per box 1” x 2.5” / 2.54 cm x 6.35 cm

FOCCUS™

Combination Cleaning™

Clean the first time... Every time!

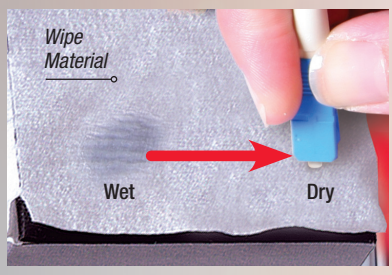


Connector contaminated with dirt & oils

Connector after FOCCUS™ Combination Cleaning™

FOCCUS products are designed for optimal cleaning of connectors using the Combination Cleaning™ process. The end face is passed through a lightly moistened spot on the lint-free wiper, then drawn into the dry area. The large cleaning platform assures the proper angle for UPC and APC connectors.

Combination Cleaning™ Process



Effective on common soils:

- Finger oils
- Mineral oils and grease
- Gels & pulling lubricants
- Dust, dirt & carbon
- Water & salt residue & more

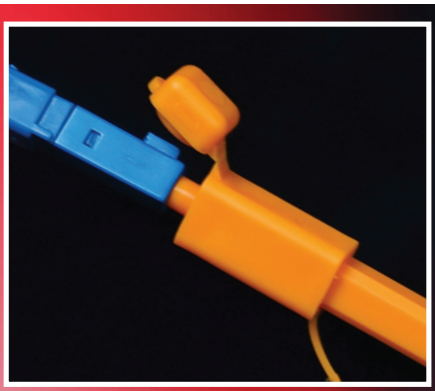
Combination Cleaning™ is industry proven, exceeding IEC 61300-3-35, IEC TR62627-01, and meeting Telcordia GR-2923-CORE and SAE Aerospace AIR6031.

Dry media can smear oils, not fully remove dry particulates and can create a static field that attracts and holds onto additional debris. Wet cleaning can oversaturate connectors, drawing up contamination from around the ferrule. Without Combination™ Cleaning, additional cleaning passes, replacement jumpers or connectors may be required.

Scan to see the Combination Cleaning™ process in action.

FOCCUS™
CONNECTING AT THE SPEED OF LIGHT™

Remove cap for cleaning adapters and bulkheads


Flip open cap for cleaning connectors

Electro-Wash® PX

Extra-strength universal cleaner and degreaser safe for use on plastics

BEST SELLER

- Safe on plastics
- Flammable
- Extra cleaning strength
- Dries fast
- Leaves no residue
- Removes organic and ionic soils
- All-Way Spray aerosol

ES810	5 oz / 141 g trigger aerosol

ES810

CCT™ Clear Connection Tool

CCT™ Clear Connection Tool used with the FOCCUS™ MX Precision Cleaning Pen provides a fast, simple method of fiber optic cleaning. End faces in bulkheads or on cable assemblies are both effortlessly cleaned the first time . . . every time.

CCT has an easy to use mechanism that advances fabric over a cleaning tip with just a short push and click of the tool. Using the CCT with the FOCCUS MX Precision Cleaning Pen provides fast, easy and repeatable Combination Cleaning™.

- Cleans connectors on back plane and on jumpers
- Uses Combination Cleaning™ process for first time cleaning, every time
- Effective for the widest range of contaminants
- Easy to use for quick and reliable cleaning
- Rugged and durable, great for all work sites
- Up to 800 cleanings per tool

CCT-125 Clear Connection Tool
Cleaning tool for MU and LC connectors

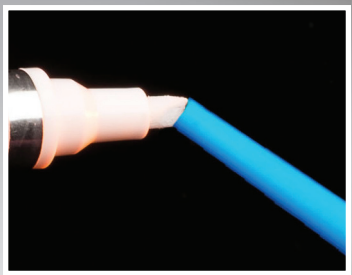
CCT-250 Clear Connection Tool
Cleaning tool for FC, SC and ST connectors

CCT-MPO Clear Connection Tool
Cleaning tool for MPO connectors

BEST SELLER

Combination Cleaning™ process with CCT Clear Connection Kits

To wet the CCT fabric tip with the MX pen, insert the CCT tip into the connector, and push in the tool 2-3 clicks advancing the fabric from wet-to-dry, perfectly cleaning the end face. Combination Cleaning™ eliminates all debris and contamination the first time, avoiding expensive rework and truck-rolls from bad connections.



Combination Cleaning™ is industry proven, exceeding IEC 61300-3-35, IEC TR62627-01, and meeting Telcordia GR-2923-CORE and SAE Aerospace AIR6031.

TECH TIP!

Fiber Optic Recessed Connector Cleaning with CCT & Fiber-Wash Pen

Fiber-Wash™ Fiber Optic Cleaning Pens

- Specifically formulated for cleaning all fiber optic connectors
- Removes handling soils, dust, oils and airborne contamination
- Cleans alone or in combination with the SqR™, p-QbE®, QbE®, CCT Cleaning Platforms
- Cleans and eliminates static
- Completely portable; controlled dispensing of cleaning solution

Fiber-Wash™ MX Precision Cleaner Pen
Convenient pen with the extra-strength, plastic safe precision cleaner

BEST SELLER

FW2150	9 g / 0.32 oz pen
FW2150BLK	Box of 24 pens, 9g each

Fiber-Wash™ AQ Precision Cleaner Pen
Nonflammable, aqueous fiber optic cleaner

FW2190	5 g / 0.2 oz pen

Fiber-Wash™ NF Precision Cleaner Pen
Nonflammable, fast drying fiber optic cleaner

FW2170	10 g / 0.4 oz pen

Shown: CFK1000

FTTH Fiber Optic Cleaning Kits

Fiber-To-The-Home fiber optic cleaning kits

- Perfect for crews performing fusion splice operations, shipping kits to remote locations
- Cleaning supplies necessary for 2.5 mm end-face cleaning and successful fusion splicing
- Use Electro-Wash® PX Universal Cleaner or Electro-Wash® MX to clean the fusion splicer, mirror and V-groove

FTTH Fiber Optic Cleaning Kits Include:

Precision Fiber Optic Cleaner (see below)

1 QbE® Cleaning Platform, 200 sheets (QbE)
50 2.5mm Foam Fiber Optic Swabs (48042F)
50 V-Groove and Ferrule Cleaning Swabs (38542F)
15 Fusion Splice Mirror Cleaning Swabs (51125F)
100 Lint-Free Precision Wipes, 4"x4" (6704F)
5 Electro-Wash® MX Premoistened Wipes (CP421)
1 Rugged Bag with carabineer attachment
1 Instructions

CFK1000	1 FTTH fiber optic cleaning kit with (1) Electro-Wash® PX Universal Cleaner (ES810)

I & M Fiber Optic Cleaning Kits

Fiber optic installation and maintenance cleaning kits

- Cleaning supplies necessary for making a successful 2.5mm fiber optic connection
- MX Precision Cleaner Pens are compact and safe to transport
- Use Electro-Wash® PX Universal Cleaner or Electro-Wash® MX to clean the fusion splicer, mirror and V-groove

I & M Fiber Optic Cleaning Kits Include:

Precision Fiber Optic Cleaner (see below)

1 QbE® Cleaning Platform, 200 sheets (QbE)
50 2.5mm Foam Fiber Optic Swabs (48042F)
100 Lint-Free Precision Wipes, 4"x4" (6704F)
5 Electro-Wash® MX Premoistened Wipes (CP421)
1 Rugged Bag with carabineer attachment
1 Instructions

CFK1010	1 I & M fiber optic cleaning kit with (1) Electro-Wash® PX Universal Cleaner (ES810)
CFK1013	1 Transportable I & M fiber optic cleaning kit with (2) Fiber-Wash™ MX Precision Cleaner Pens (FW2150)

FOCCUS™ Ribbon Matrix Removal Kit

Complete patented midspan matrix removal kit

- Includes FOCCUS Matrix Remover with modified delivery system
- Patented "Solvent Capture" process safely removes "matrix" from most ribbon cable in a timed process
- No tools, no cutting
- For up to 300 mid-span insertions

CFK2000 Ribbon Matrix Removal Kit:

1 Electro-Wash NXO (ES1607)
1 Solvent capture binder

INSTRUCTIONS

Step-by-step instructions for how to properly use the Ribbon Matrix Kit

U.S. Government National Stock Numbers	Part #	Product Name	Page
0793-00-103-94802	ES1668	Plast-N-Glas®	13
3439-00-009-2334	7-5L	Chem-Wik® Rosin	29
3439-01-009-6448	80-5-5	Soder-Wick®	28
3439-01-198-9716	80-4-10	Soder-Wick®	28
3439-01-324-8208	80-2-5	Soder-Wick®	28
3439-01-371-1588	10-5L	Chem-Wik®	29
416850-01-514-1372	CW3500	CircuitWorks® Conformal Coating Remover Pen	34
4820-01-314-3601	ES710V	Chrome Trigger Valve	26
5836-01-453-8942	CC50	Chamois Tips™	20
5836-01-454-0401	ES605L	IPA	26
5836-01-454-0402	CP400	Chempad™	15
5970-01-417-4152	CTSR-12	Konform® SR	36
5970-01-417-4154	CTSR-1	Konform® SR	36
5970-01-417-4156	CTAR-1	Konform® AR	35
5970-01-417-4158	CTAR-12	Konform® AR	35
6616-00-077-3218	CF4050	Foamtips™ #140	35
6830-01-381-2675	ES1020K	Ultrajet® System	26
6830-01-388-6924	ES1020R	Ultrajet® Refill	26
6850-00-142-40716	ES1551	Freeze-It® Antistat	27
6850-00-602-2347	ES1631	Flux-Off® Heavy Duty	11
6850-01-224-9211	ES2400	Tun-O-Wash®	8
6850-01-393-9054	ES1210	Electro-Wash® PX	6
6850-01-412-0040	ES1020	Ultrajet®	25
6850-01-418-0499	ES1035	Flux-Off® Rosin	10
6850-01-436-4573	ES7300	Pow-R-Wash™ CZ	8
6850-01-436-4578	ES7200	Flux-Off® CZ	10
6850-01-436-4584	ES7100	Electro-Wash® CZ	6
6850-01-456-4173	ES835B	Flux-Off® Rosin	10
6850-01-463-8043	ES1017	Duster	14
6850-01-475-0987	CW8100	No-Clean Flux Dispensing Pen	33
6850-01-484-3064	CP410	Optic Prep™	15
6850-01-506-5662	CW2200MTP	Conductive Pen	31
6850-01-560-5804	ES1051	Freeze-It® Antistat	27
7045-01-535-0276	CM502	Microtips™	21
7045-01-548-4966	CT5000	Cottontips™ Low Lint	24
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7930-01-559-5328	CP421	Electro-Wash® MX Presaturated Wipe	6, 15
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9150-01-508-9999	CW7100	Conductice Grease	30
9390-01-552-1552	80-3-5	Soder-Wick®	28

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ES1020, ES1020R ES1620, ES1015	All Ultrajet®, and Ultrajet® 70	25	Fed Spec A-A-58060, ARI Standard 700, App. C
CM8, CM1	Chemask®	37	MIL-STD-2000A, Para.5.3.18
CHV8	Chemask® HV High Viscosity	38	MIL-STD-2000A, Para. 5.3.1835,36
CLF8	Chemask® LF	37	MIL-STD-2000A, Para. 5.3.18
All Chem-Wik®	Chem-Wik®	29	MIL-F-14256F, Type R, ANSI/IPC J STD-004, Type ROL0 NASA-STD-8739.3
All Chem-Wik®	Chem-Wik®	29	MIL-STD-1686C, MIL-HDBK-263B
All CircuitWorks®	CircuitWorks®	30-34	ANSI/IPC J STD-001, IPC-7711
CT40-5	CircuitWorks® Heat Sink Grease	30	MIL-DTL-47113D
CW8400	CircuitWorks® Lead-Free Flux Dispensing Pen	33	ANSI / IPC J-STD-004, Type ROL0; Bellcore TR-N-NWT-000078 and IPC SF-818 for Surface Insulation Resistance
CW8100	CircuitWorks® No-Clean Flux Dispensing Pen	33	ANSI/IPC SF-818, ANSI/IPC J STD-004, Type ROL0 Bellcore TR-NWT-000078
CW3300C, CW3300G	CircuitWorks® Overcoat Pen	31	IPC-CC-830A, MIL-I-46058C, Type AR
CW8200	CircuitWorks® Rosin Flux Dispensing Pen	33	MIL-F-14256F, Type R, ANSI/IPC J STD-004, Type ROL0
CW8500	CircuitWorks® Tacky Flux	33	ISO 9454, Bellcore TR-NWT-000078, DIN EN 29454-1 1.1.3.C classification
CW8300	CircuitWorks® Water Soluble Flux Dispensing Pen	33	ANSI/IPC J-STD-004, ORH1
ES1017, ES1617	Duster	26	Fed Spec A-A-58060, ARI Standard 700, App. C
ES7100	Electro-Wash® CZ	6	MIL-PRF-29608A (AS) Class C approved
CTAR-12, CTAR-1	Konform® AR	35	MIL-I-46058C Type AR, IPC-CC-830A, UL Recognized
CTSR-12, CTSR-1	Konform® SR	36	MIL-I-46058C Type SR, IPC-CC-830A, UL Recognized
CTSR-HV1	Konform® SR High Viscosity	36	MIL-I-46058C Type SR, IPC-CC-830A
ES7300	Pow-R-Wash™ CZ	8	MIL-PRF-29608A (AS) Class C approv
All Soder-Wick®	Soder-Wick®	28-29	MIL-F-14256F, Type R, ANSI/IPC J STD-004, Type ROL0 DOD-STD-883E, Method 2022, NASA-STD-8739.3
60 Series	Soder-Wick® No-Clean	28	ANSI/IPC J STD-004, Type ROL0, DOD-STD-883E, Method 2022 NASA-STD-8739.3, Bellcore TR-NWT-000078, ANSI/IPC SF-818 Singapore Institute of Standards and Industrial Research (SISIR) for Solderability
All Soder-Wick®	Soder-Wick®	28-29	MIL-STD-1686C, MIL-HDBK-263B, MIL-B-81705C, MIL-STD-2000A
Static Dissipative (ESD-Safe)		13	MIL-B-81705C, MIL-STD-2000A
C805	Static Free™ Hand Guard™	13	IPC-ESD-20-20, MIL-STD-1686C, MIL-HDBK-263B
ES1664T	Static Free™ Mat and Benchtop Reconditioner	13	IPC-ESD-20-20, MIL-STD-1686C, MIL-HDBK-263B

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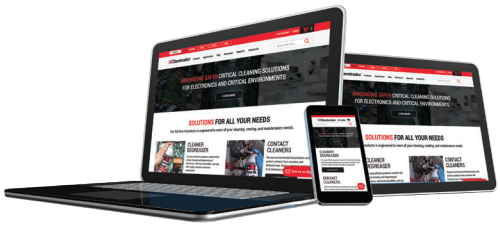
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