

Avionics Repair and Aircraft Maintenance

 **Chemtronics®**

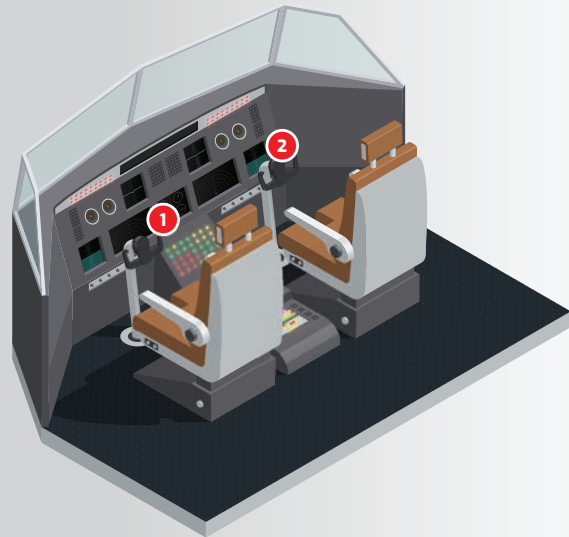


Superior products for
AVIONICS / AVIATION MAINTENANCE AND REPAIR

Chemtronics® AVIONICS REPAIR AND AIRCRAFT MAINTENANCE

AVIONICS REPAIR

Chemtronics products make avionics repair faster, easier and more accurate, improving equipment reliability even in the most challenging aviation environment. Soder-Wick® and CircuitWorks® board repair products are advanced materials packaged in unique delivery systems. They ensure exacting performance and pinpoint accuracy. Chemtronics products meet all of the technician's needs for avionics repair – cleaning, protecting and restoring electrical conductivity to circuit boards and components.



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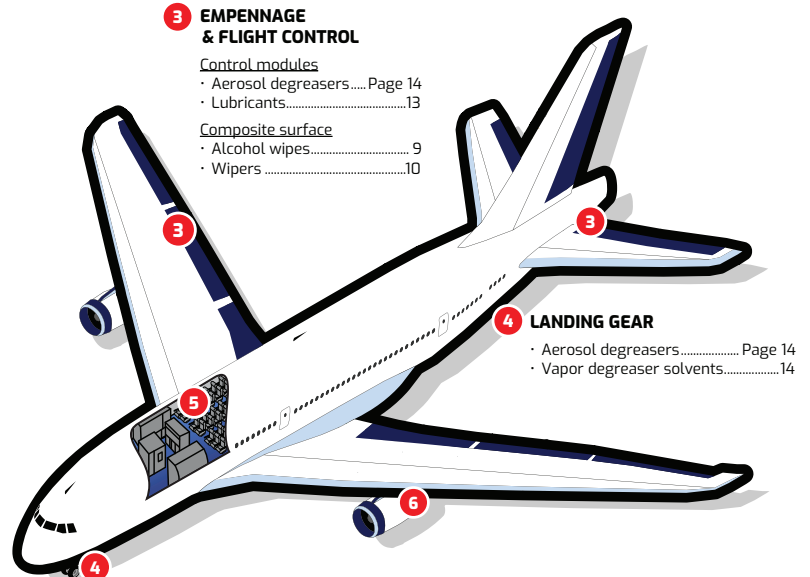
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AVIATION MRO

Chemtronics aviation maintenance cleaners improve performance, efficiency and safety for degreasing, contact cleaning, and aircraft surface cleaning.

SAFETY IS THE TOP PRIORITY – Chemtronics degreasers and contact cleaners are ideal replacements for highly toxic solvents like nPB, TCE and Perc. Greater safety without compromising cleaning performance!



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Specs

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Flux-Off® Rosin - ES10353		Soder-Wick® No Clean Desoldering Braid 7		Foamtip Swabs #120 - CF2050 11	
NSN# 6850-01-418-0499		MIL-STD-1686C, MIL-HDBK-263B, MIL-B-81705C,		NSN# 6515-01-594-7427	
Ford TOX #134352		MIL-STD-2000A		IBM #55G6977	
Flux-Off® CZ - ES7200, ES7201 4		DOD-STD-883E, Method 2022		Foamtip Swab #140 - CF4050 11	
NSN# 6850-01-436-4578 (ES7200),		J STD-004, Type ROLO		NSN# 6616-00-077-3218	
NSN# 6850-01-436-4579 (ES7201)		Ford TOX #136423		Electro-Wash® MX Pen - FW2150 12	
MIL-PRF-29608A(AS)Class C (ES7201)		Konform® AR - CTAR-12, CTAR-1 8		NSN# 6850-01-606-8548	
All CircuitWorks®5-6		NSN# 5970-01-417-4158 (CTAR-12),		Plast-N-Glas® - ES1668 12	
J STD-001, IPC-7711		NSN# 5970-01-417-4156 (CTAR-1)		NSN# 793-00-103-94802	
Conductive Pen - CW2200MTP 6		MIL-I-46058C Type AR, IPC-CC-830A		General Motors #215538	
NSN# 6850-01-506-5662		UL Recognized		Precision Cleaning Solvent - 12820 13	
CircuitWorks®		Konform® SR - CTSR-12, CTSR-1 8		SAE ARP1176	
Overcoat Pen - CW3300C, CW3300G 6		NSN# 5970-01-417-4152		NASA/TP-2015-218207	
MIL-I-46058C Type AR, IPC-CC-830A		MIL-I-46058C Type AR, IPC-CC-830A		Electro-Wash® PX - ES1210 14	
CircuitsWorks®		UL Recognized		NSN# 6850-01-393-9054	
Conf. Coating Remover Pen - CW3500 6		Ultradjet® 70 - ES1015 8		FedEx CPN 300315	
NSN# 6850-01-514-1372		Fed Spec A-A-58060, ARI Standard 700, App. C		Raytheon #HM-0413	
Conductive Grease - CW7100 5		General Motors #199987		Electro-Wash® CZ - ES7100, ES7101 14	
NSN# 9150-01-508-9999		Freez-It® - ES1050, ES1550 8		NSN# 6850-01-436-4584 (ES7100),	
CircuitWorks®		NSN# 6850-01-333-1841		NSN# 6850-01-436-4585 (ES7101)	
No Clean Flux Dispensing Pen - CW8100 6		United Airlines #GAS3002-1SC		Pow-R-Wash™ CZ - ES7300, ES7301 15	
NSN# 6850-01-475-0987		Fed Spec A-A-58060, ARI Standard 700, App. C		NSN# 6850-01-436-4573 (ES7300),	
ANSI/IPC SF-818, J STD-004, Type ROLO		Ford TOX #38561 (ES1050),		NSN# 6850-01-436-4575 (ES7301)	
CircuitWorks®		Northern Telcom #272012 (ES1050)		MIL-PRF-29608A(AS)Class C (ES7300)	
Rosin Flux Dispensing Pen - CW8200 6		Freez-It® Antistat - ES1551 8		STD-8739.3 (ES7300)	
MIL-F-14256F, Type R		NSN# 6850-00-142-40716		ANSI/IPC SF-818 (ES7300)	
J STD-004, Type ROLO		Fed Spec A-A-58060, ARI Standard 700, App. C		Bellcore #TR-NWT-000078 (ES7300)	
Chemswab™ Presaturated Swabs - CS25 9		Chemswab™ Presaturated Swabs - CS25 9		SISIR #P8254385-118	
IBM #19F3213		IBM #19F3213		Tun-O-Wash® - ES2400 15	
Static Free™ Hand Guard™ - C805 12		Static Free™ Hand Guard™ - C805 12		NSN# 6850-01-224-9211	
NSN# 6515-01-594-7427		NSN# 6515-01-594-7427			
MIL-STD-1686C, MIL-HDBK-263B		MIL-STD-1686C, MIL-HDBK-263B			
IPC-ESD-20-2		IPC-ESD-20-2			

Chemtronics makes avionics repair faster, easier and more accurate, improving equipment reliability even in the most challenging aviation environment. Soder-Wick® and CircuitWorks® board repair products are advanced materials packaged in unique delivery systems. They ensure exacting performance and pinpoint accuracy. Chemtronics products meet all of the technician's needs for avionics repair — cleaning, protecting and restoring electrical conductivity to circuit boards and components.

- Clean and maintain sensitive avionics to prevent corrosion
- Ensure reliability of controls, sensors, displays, touch panels, communication and other critical systems
- Repair circuit boards and replace faulty components instead of replacing whole modules



Flux Removers

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



VV195	1 gal / 3.7 L liquid
VV595	5 gal / 18.9 L liquid
VV5595	53 gal / 200 L liquid

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
ES196	1 gal / 3.7 L liquid

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

ES835B	5 oz / 141 g BrushClean™ System
ES1035	10 oz / 283 g aerosol NSN 6850-01-418-0499
ES135	1 gal / 3.7 L liquid
ES535	5 gal / 18.5 L liquid

Flux-Off® Complete

Powerful, economical flux remover for cleaning no-clean flux

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

ES1698	12 oz / 340 g aerosol
ES198	1 gal / 3.7 L liquid

Flux-Off® Aqueous

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

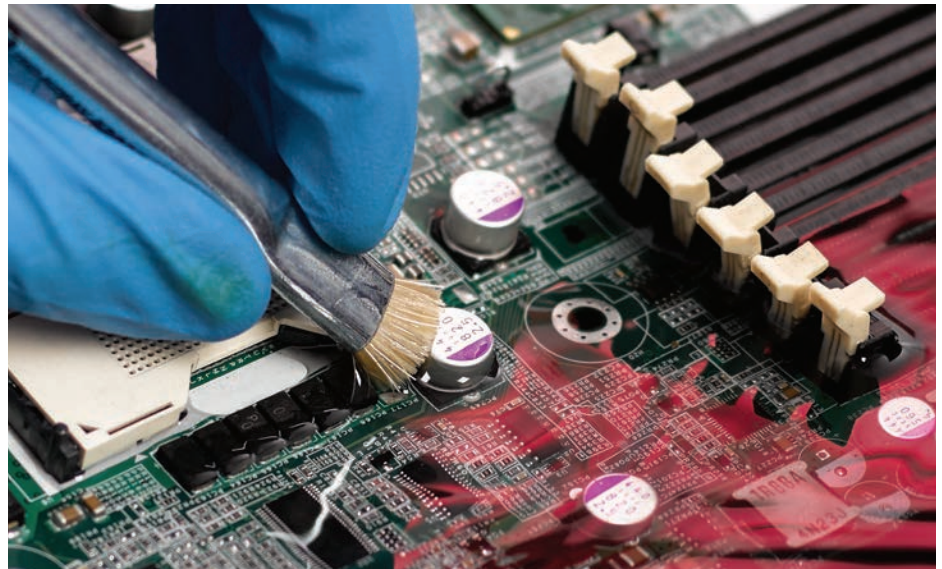
- Water-based saponifier for removing all flux types
- Safe on plastics
- Nonflammable
- Concentrated – dilute to adjust cleaning strength
- Requires a water rinse

ES132	1 gal / 3.7 L liquid
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Flux Removers

Flux-Off® cleaners remove flux residues from soldered joints that can promote corrosion and short circuits.



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 12 oz / 340 g aerosol

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
- Test on plastics

ES6200 12 oz / 340 g aerosol
NSN 6850-01-436-4578

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

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™ VW195, VW595, WV5595	1	1	NR	✓	✓	✓	95% / NA	✓	✓	✓	✓	✓	✓	✓	Strongest Cleaner
Flux-Off® Delta DEL1692	1	1	NR	✓	✓	✓	39% / 52%	✓	✓	✓	✓	✓	✓	✓	
Flux-Off® VZ ES6200	1	2	NR		✓	✓	25% / 75%	✓	✓	✓	✓	✓	✓	✓	
Flux-Off® Complete ES1698	1	1	NR			✓	42% / 42%	✓	✓	✓	✓	✓	✓	✓	
Flux-Off® No Clean Plus ES1696	1	1	2	✓		✓	48% / 51%	✓	✓	✓	✓	✓	✓	✓	
Flux-Off® Rosin ES135, ES535, ES1035	1	2	2		✓	✓	75% / 100%	✓	✓	✓		✓	✓	✓	
Flux-Off® Aqueous ES132	1	2	1	✓	✓	✓	NA / 16%				✓	✓	✓	✓	
Flux-Off® CZ ES7200, ES7208	1	2	NR		✓	✓	22% / NA	✓	✓	✓					Most Plastic-Safe

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



CW2200MYP

CircuitWorks® Conductive Pen

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

- 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
NSN 6850-01-506-5662



CircuitWorks® Flex Conductive Pen

Micro-tip pen for drawing conductive traces on flexible and ITO surfaces

- Quickly creates flexible conductive silver traces on flex circuitry
- Micro tip for precise applications
- Dries in minutes at room temperature
- Highly adherent silver-based polymer system

CW2900 Micro Tip 8.5 g / 0.3 oz



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 over a wide temperature range
- Controls static discharge
- Grounds circuits

CW7100 6.5 g / 0.23 oz
NSN 9150-01-508-9999



All CircuitWorks® products meet ANSI/IPC J STD-001, IPC-7711

CircuitWorks® Conductive Epoxy

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 7 g / 0.25 oz
Hardener 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 10 g / 0.35 oz
Hardener 10 g / 0.35 oz in jars



CW7250



CW7270

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
- Thermally stable from -99.4°F/-73°C to 392°F/200°C
- Exceeds MIL-C-47113 for Thermal Conductivity

CW7250 3.4 g / 0.12 oz

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
- Thermally stable from -99°F/-73°C to 603°F/317°C
- Exceeds MIL-C-47113 for thermal conductivity

CW7270 8 g / 0.28 oz

CircuitWorks® Overcoat Pen

The 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, Type AR

Applications:

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

CW3300C Clear 4.9 g / 0.16 oz

CW3300G Green 4.9 g / 0.16 oz



CW3300G



CircuitWorks® Epoxy Overcoat

Tough, thermally stable, epoxy protective conformal coating

- Provides a hard, durable, protective green coating
- Excellent dielectric properties; help prevent electrical discharge
- Protects against moisture and abrasion
- Ideal for pre-reflow solder resist repair
- Service temperature from -55°F/-48°C to 600°F/315°C
- Meets the requirements of IPC-7721, 2.4.1

Applications:

- Ideal for repairing permanent solder mask before reflow applications
- Protects circuits and prevents shorting and arcing

CW2500 Adhesive Syringe 4 g / 0.14 oz
Hardener Syringe 3.4 g / 0.12 oz



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

CW8100 9 g / 0.32 oz
NSN 6850-01-475-0987



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

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
- Provides controlled and exact application
- Evaporates quickly
- Low surface tension for superior wetting
- Low VOC content

CW3500 9 g / 0.32 oz
NSN 6850-01-514-1372



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





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:

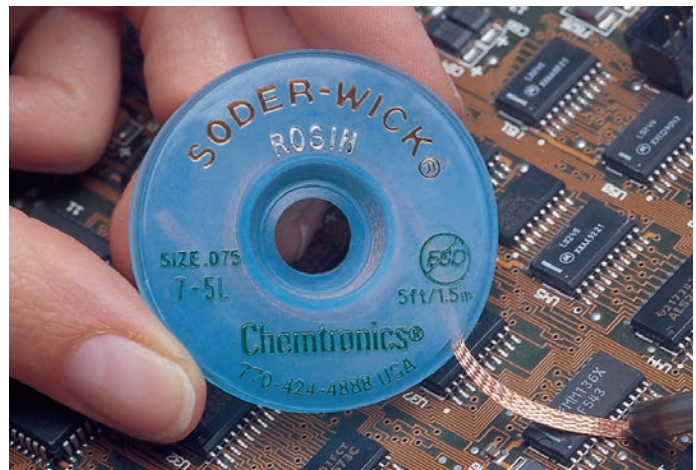
- Meets MIL-STD-883B, Bellcore TR-NWT-000078, ANSI/IPC J SF-818
- Meets parameters tested by the Singapore Institute of Standards and Industrial Research (SISIR) for Solderability
- ANSI/IPC J STD-004, Type ROL0

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

***Offered in static dissipative (SD) bobbins:**

- DOD Standard 1686C and MIL-HDBK-263B
- Mil-Std-2000A
- Mil-B-81705C Static Decay Rate Provision



Product Selection Guide

Product	Size		
		1.5m	3.0m
Soder-Wick® Rosin Fastest wicking action with rosin flux coated desoldering braid	#1 braid	80-1-5	80-1-10
	#2 braid	80-2-5	80-2-10
	#3 braid	80-3-5	80-3-10
	#4 braid	80-4-5	80-4-10
	#5 braid	80-5-5	80-5-10
	#6 braid	80-6-5	
Product	Size		
		1.5m	3.0m
Soder-Wick® No Clean Cleanest, leaving behind no ionic residue, with no clean flux coated desoldering braid	#1 braid	60-1-5	60-1-10
	#2 braid	60-2-5	60-2-10
	#3 braid	60-3-5	60-3-10
	#4 braid	60-4-5	60-4-10
	#5 braid	60-5-5	60-5-10
	#6 braid	60-6-5	

Desoldering Braid Sizing Guide

#1 White/Gray	#2 Yellow	#3 Green
.030" (0.8mm)	.060" (1.5mm)	.080" (2.0mm)
#4 Blue	#5 Brown	#6 Red
.110" (2.8mm)	.145" (3.7mm)	.210" (5.3mm)

Wick shown actual size

Duster

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
- 100% ultra-pure HFC-134a — leaves no residue
- Safe on plastics

ES1015 10 oz / 283 g aerosol

Meets Fed Spec A-A-58060, ARI Standard 700, App. C



Freeze Sprays

Freez-It®

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

- Pinpoint spray isolates individual components without freezing surrounding areas
- Nonflammable
- Filtered to 0.2 microns
- Meets Fed Spec A-A-58060, ARI Standard 700 App.C, United Airlines GAS3002-1SC

ES1050 10 oz / 283 g aerosol

ES1550 15 oz / 425 g aerosol
NSN 6850-01-333-1841

Freez-It® Antistat

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



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

ES1051 10 oz / 283 g aerosol

ES1551 15 oz / 425 g aerosol
NSN 6850-00-142-40716



ES1050



ES1551



CTAR-12

CTAR-1

CTSR-12

Conformal Coatings

Konform® AR

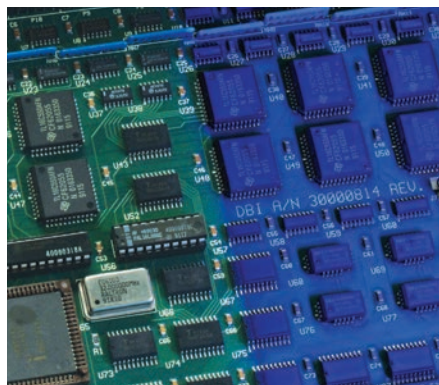
Acrylic coating for effective insulation against high voltage arcing and shorts

- Acrylic coating working temperature from -75°F/-59°C to 270°F/132°C
- High dielectric breakdown of 8300 volts/mil
- Meets MIL-I-46058C, Type AR
- 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 ft² / 1.9 m²
Liquid (1 gal.) 254 ft² / 23.6 m²



CTAR-12 11.5 oz / 326 g aerosol

CTAR-1 1 gal / 3.7 L liquid



Konform® SR and Konform® AR conformal coatings contain a UV indicator for improved quality assurance.

Konform® SR

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

- Silicone coating working temperature from -85°F/-64°C to 390°F/200°C
- High dielectric breakdown of 1100 volts/mil
- Easily removed with Electro-Wash® Two Step, Electro-Wash® NXO, or CircuitWorks® Conformal Coating Remover Pen
- Meets MIL-I-46058C, Type SR
- 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 ft² / 2 m²
Liquid (1 gal.) 251 ft² / 23.3 m²



CTSR-12 10 oz / 283 g aerosol

CTSR-1 1 gal / 3.7 L liquid



Hi-Purity Alcohol Wipes – Polyester

Semicon Grade IPA Wipes for Critical Cleaning

- Laser sealed edge and monofilament “no-run” polyester prevent loose fibers
- Durability for cleaning abrasive and irregular surfaces
- Class 10 (M3, ISO 4) cleanroom processed and packaged
- Inner bag reseals with slider

6259LEIPA 9” x 9” polyester wipe, 100% semi-con grade IPA, 50 wipes/bag

6259LE7030 9” x 9” polyester wipe, 70% semi-con grade IPA / 30% DI water (18 MΩ), 50 wipes/bag

Hi-Purity Alcohol Wipes – Polypropylene

Semicon Grade IPA Wipes for Delicate Surface

- Economical for general purpose use
- Excellent softness and ultra-low abrasiveness is ideal for delicate surfaces
- Low linting, melt-blown polypropylene material
- Cleanroom processed and packaged
- Peel and reseal inner bag

6911IPA 9” x 11” folded polypropylene wipes, 70% semi-con grade IPA / 30% DI water (18 MΩ), 30 wipes/bag

Hi-Purity Alcohol Wipes - Econowipes™

Semicon Grade IPA Wipes for Lab and Workstation Cleaning

- Economical for general purpose use
- Non-woven 55% cellulose / 45% polyester for greater saturation, low linting and high strength
- Low abrasiveness
- Cleanroom processed and packaged
- Peel and reseal inner bag

6799IPA 9” x 9” folded wipes, 70% semi-con grade IPA / 30% DI water (18 MΩ), 100 wipes/bag

IPA Presaturated Wipes

General purpose presaturated wipe in a convenient dispenser

- 70% IPA and 30% deionized water
- Strong, will not tear, shred, unravel or lint
- Holds up to the most rigorous scrubbing

SIP100P 100 pull-up presaturated wipes

SIP125P 125 pull-up presaturated wipes

SIP125R Refill role for SIP125P

Chempad™ Presaturated Wipe

General purpose, presaturated lint-free cleaning wipe

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

CP400 50 single pack presaturated wipes

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

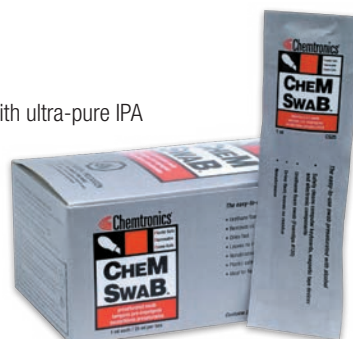
Screen Prep™ Presaturated Wipe

Convenient cleaning and static control for displays



- 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
- Meets IPC-ESD-20-20, MIL-STD-1686C, MIL-HDBK-263B

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



CS25

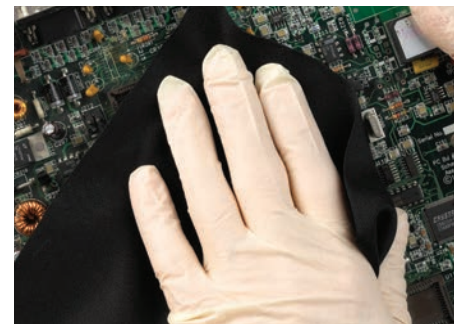
Wipes and Swabs

Coventry™ Cleanroom Laundered Wipes




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

Product Name	Part Number	Material	Quantity	Size
Sealed Edge Poly-Wipes	6209HC	Light-weight polyester (high absorbency)	150	9" x 9"
Sealed Edge Cleanroom Chamois™	7348LE	Microfiber (high absorbency)	50	8" x 8"
Poly-Onyx™ ESD Wipes	6254BESD	black monofilament polyester no-run knit	600	4" x 4"
Sealed Edge Poly-Wipes	6259BESD	black monofilament polyester no-run knit	150	9" x 9"
Econowipe™	6704F	Polyester/cellulose blend, nonwoven	100	4" x 4"


Visit www.coventrycleanroom.com or the full line Coventry catalog for complete product listings of wipes and swabs.





Coventry™ ESD Static Control Swabs

	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	36060ESD	500 swabs	5.8"	0.19" x 0.21"	ESD	knit polyester
	41050ESD	500 swabs	2.8"	0.13" x 0.14"	ESD	polyurethane foam
	44070ESD	500 swabs	3.2"	0.11" x 0.13"	ESD	polyurethane foam




Coventry™ Wrapped Polyester Pillow-Tip™ Swab

	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	51121	25 swabs	2.8"	0.25" x 0.23"	glass filled nylon	knit polyester

Coventry™ Sealed Foam Swabs


	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	43170	500 swabs	6.0"	0.33" x 0.35"	wood	polyurethane foam over cotton
	44070	500 swabs	3.2"	0.11" x 0.13"	polypropylene	polyurethane foam

Coventry™ Wrapped Foam Swabs


	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	20050	500 swabs	2.6"	0.12" x 0.12"	wood	polyurethane foam
	20080	500 swabs	2.6"	0.11" x 0.11"	wood	polyurethane foam
	21050	500 swabs	2.8"	0.14" x 0.14"	nylon	polyurethane foam



Cottontips™ & Cottontips™ Low Lint

	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	Cottontips™ Double-Head CT200	100 swabs	6.00"	0.19"	wood	cotton

Foamtips™

	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	Foamtips™ #100 CF50	50 swabs	6.10"	0.38"	wood	100 ppi open cell foam over cotton bud


	Foamtips™ #110 CF1050	50 swabs	5.00"	0.82"	polypropylene	100 ppi open cell foam
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	Foamtips™ #120 CF2050	50 swabs	5.12"	0.50"	polypropylene	100 ppi open cell foam
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	Foamtips™ #130 CF3050	50 swabs	6.00"	0.25"	polypropylene	100 ppi open cell foam
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	Foamtips™ #140 CF4050	50 swabs	2.87"	0.19"	polypropylene	100 ppi open cell foam
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Super Flextips™

	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	Super Flextips™ SX50	50 swabs	4.45"	0.25"	nylon/polypropylene	100 ppi closed cell foam

	Super Flextips™ Mini SXM50	50 swabs	4.13"	0.19"	nylon/polypropylene	100 ppi closed cell foam
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Microtips™

	Product	Pkg Count	Swab Length	Head Width	Handle Material	Head Material
	Microtips™ CM502	50 swabs	6.7"	0.08"	polypropylene	polyvinylidene flouride

Fiber Optic Cleaning

Fiber-Wash™ Cleaning Pens

- Specifically formulated for cleaning all fiber optic connectors
- Removes handling soils, dust, oils and airborne contamination
- Use in combination with QBE's, CCT tools, or swabs.



Fiber-Wash™ MX Precision Cleaner Pen

Convenient pen with the extra-strength, plastic safe precision cleaner

FW2150 9 g / 0.32 oz pen
NSN 6850-01-606-8548



Fiber-Wash™ NF Precision Cleaner Pen

Nonflammable, fast drying fiber optic cleaner

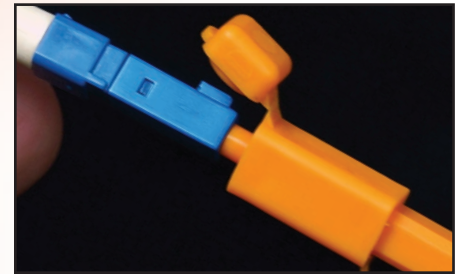
FW2170 10 g / 0.4 oz pen

FOCCUS™ CCT™ Clear Connection Tool

Fast, effective fiber connector end-face cleaning kits



Remove cap for cleaning adapters and bulkheads



Flip open cap for cleaning connectors

CCT-125 Clear Connection Tool

Cleaning tool for 1.25mm MU and LC connectors

CCT-125KIT Clear Connection Kit

Contain: (1) CCT-125, (1) FW2150 MX Pen



CCT-250 Clear Connection Tool

Cleaning tool for 2.5mm FC, SC and ST connectors

CCT-250KIT Clear Connection Kit

Contain: (1) CCT-250, (1) FW2150 MX Pen



CCT-MPO Clear Connection Tool

Cleaning tool for MPO connectors

CCT-MPOKIT Clear Connection Kit

Contain: (1) CCT-MPO, (1) FW2150 MX Pen



Static Dissipative Products



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™ Plast-N-Glas®

Foaming, non-streaking static dissipative cleaner for transparent surfaces

- Controls static, cleans and polishes in one application
- Effectively removes handling oils, finger soils 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



Chemtronics aviation cleaners provide a wide variety of cleaning solutions, like removing contaminants from avionics, hydraulic fluid removal, and electrical maintenance.

Electro-Wash® solvents quickly remove a wide variety of oxides and lubricants for critical cleaning applications.

Pow-R-Wash™ contact cleaners remove contaminants and protect contacts from corrosion and frictional wear.

Chemtronics degreasers and contact cleaners are ideal replacements for highly toxic solvents like nPB, TCE and Perc.

Clean and maintain critical and contaminant-prone areas:

- Exhaust trail areas
- Battery compartments and vents
- Avionic systems
- Landing gear
- Cooling vents



Precision Cleaner / Lubricant

Precision Cleaning Solvent

Effective cleaning and validation of NASA propulsion oxygen systems and LOx hardware

- Cleaning solvent for critical cleaning applications
- Meets SAE ARP1176
- Evaluated and tested in NASA/TP-2015-218207
- Non combustible
- Validates liquid oxygen (LOx) systems
- Designed for use in oxygen system cleaning
- Azeotropic composition provides excellent composition stability
- Removes particulates and debris
- Removes fluorocarbon greases and oils used to lubricate fittings
- Low toxicity
- Fast drying
- Very low non-volatile residue
- Maximum performance and safety

12820 1 gal / 3.7 L liquid



DPL® Deep Penetrating Lubricant

Deep penetrating lubricant to displace moisture and inhibit corrosion

- Restores, rejuvenates, protects and preserves contacts
- Foaming spray penetrates deeply to remove moisture
- Loosens, cleans, lubricates and protects frozen or corroded parts
- Dielectric strength of 30 kV
- Contains no chlorinated solvents or silicone
- Non-corrosive and nonconductive
- Safe on metals and plastics
- NSF Registered — Nonfood Compounds/Code H2
- All-Way Spray aerosol



ES1626 11 oz / 322 g aerosol

Cleaner Degreasers

Max-Kleen™ Tri-V™

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

- Nonflammable
- Can be used on energized equipment
- Fast drying
- Safer alternative to n-propyl bromide, trichloroethylene, or perchloroethylene



- VV2279** 20 oz / 567 g aerosol
VV179 1 gal / 3.7 L liquid
VV5579 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



- DEL2201** 19 oz / 538 g aerosol

Electro-Wash® QD

Fast drying, nonflammable electronics cleaner degreaser

- Nonflammable, nonchlorinated
- Excellent material compatibility
- Displaces moisture
- Evaporates fast, minimizes down time

- DEL1608B** 12 oz / 340 g aerosol

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

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

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
- Meets Raytheon HM-0413

- ES1210** 12.5 oz / 354 g aerosol
 NSN 6850-01-393-9054

Electro-Wash® CZ

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

- Safe on plastics
- Nonflammable
- Dries fast
- Leaves no residue
- Meets MIL-PRF-29608A(AS) Class C

- ES7100** 12 oz / 340 g aerosol



Product Selection Guide

Product	Features						Cleaning Ability			Cleaning Methods			Performance	
	Plastic Safe	Nonflammable	No Ozone Depleting Chemicals	Dries Fast	Dielectric Breakdown (Aerosol)	VOC-EPA (Aerosol / Liquid)	Grease	Oil	Ionic Soils	Aerosol Spray	Vapor Degreasing	Ultrasonics		Cold Immersion
Electro-Wash® Tri-V VV179, VV2279, VV5579	✓	✓	✓	✓	21kV	70% / 95%	1	1	2	✓	✓	✓	✓	Strongest Cleaner
Electro-Wash® Delta DEL2201	✓	✓	✓	✓	31kV	63% / 85%	2	1	2	✓		✓	✓	
Electro-Wash® QD DEL1608B	✓	✓	✓	✓	11kV	0% / NA	3	1	2	✓				
Electro-Wash® VZ ES6100, ES6119		✓	✓	✓	17kV	19% / 45%	3	1	2	✓	✓	✓	✓	
Electro-Wash® PX ES1210	✓		✓	✓		75% / 100%	1	1	1	✓			✓	
Electro-Wash® CZ ES7100	✓	✓	✓	✓	17kV	75% / NA	3	2	2	✓				

1 – Excellent 2 – Good 3 – Fair



Pow-R-Wash™ Delta

Nonflammable cleaner safe for use on powered-up contacts and surrounding plastics

- Nonflammable
- Best AK225 replacement chemistry
- Fast drying
- Dielectric breakdown 30 kV
- Contains no ozone depleting compounds, low VOC's



DEL1681 12 oz / 340 gm aerosol

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 63 kV
- Leaves no residue
- All-Way Spray aerosol

ES2425 13.5 oz / 385 g aerosol

Pow-R-Wash™ VZ

Economical non-ozone depleting, nonflammable contact cleaner safe for use on live circuits

- Nonflammable
- Dielectric breakdown of 15 kV
- Noncorrosive
- Evaporates quickly without leaving residue
- Test on plastics
- Ideal AK225 replacement
- All-Way Spray aerosol

ES6300 12 oz / 340 g aerosol

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

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
- Meets MIL-PRF-29608A(AS) Class C

ES7300 12 oz / 340 g aerosol
NSN 6850-01-436-4573



Product Selection Guide	Features					Benefits and Applications			
	Plastic Safe	Nonflammable	Cleaning Strength	No Ozone Depleting Chemicals	Dries Fast	VOC-EPA (Aerosol / Liquid)	For Use On Live Circuits	Dielectric Breakdown	
Pow-R-Wash® Delta DEL1681	✓	✓	X	✓	✓	56% / NA		30kV	Strongest Cleaner
Pow-R-Wash® Cable Cleaner ES2425	✓		X	✓		50% / NA		62kV	
Pow-R-Wash® VZ ES6300		✓	R	✓	✓	16% / 75%	✓	15kV	
Tune-O-Wash ES2400	✓		R	✓	✓	75% / NA		23kV	
Pow-R-Wash® CZ ES7300	✓	✓	R	✓	✓	7% / NA	✓	31kV	Most Plastic-Safe

R – Regular Strength X – Extra Strength

Chemtronics Analysis & Application Lab

Chemtronics Application Lab offers state-of-the-art cleaning and analytical services to help customers optimize their processes and as required, develop customized solutions.

Cleaning equipment includes inline, batch, ultrasonic, and vapor degreasing systems.

Services Include:

- Verify cleaning materials meet customer, industry and regulatory requirements
- Troubleshoot and optimize cleaning processes
- Identify most effective cleaner for specific application
- Compatibility testing for sensitive materials
- Ensure a safer work environment by helping with the move to less toxic solvents.

Free Qualification Testing

Call us today for an on-site evaluation and consultation.



For more information and the full product line for electronics, fiber optic, and critical environment cleaning and maintenance...



Chemtronics®
Electronic prototyping,
assembly and maintenance.



COVENTRY™
Cleaning for critical
environments.



FOCUS™
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