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# **ANTI-STATIC COATINGS**



# ESD WORKBENCH PRODUCTS



# STATIC DISSIPATIVE FLOOR COATINGS



# ESD TEST & MEASUREMENT INSTRUMENTS



# PCB REWORK, REPAIR, AND PROTOTYPING



# CONTAMINATION CONTROL





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# STATICIDE® TOPICAL ANTI-STATS

Proven effective after years of use in industrial, commercial, and institutional facilities, Staticide® has become a trusted name in static protection and the closest thing there is to "static control insurance."

Anti-static topicals are easy-to-use solutions that reduce static electricity. Staticide® anti-stats decay static to a zero charge longer than any other anti-static topical on the market. Unlike other anti-static topicals, Staticide® Concentrate is formulated to be effective, independent of relative humidity.

In a broad range of settings, including computer rooms, manufacturing, and high-production environments, our family of solutions is used as a cost-effective solution for eliminating static. Staticide® can easily be applied on sensitive electronic equipment, walls, ceilings, floors, carpets, fixtures, worksurfaces, tools, equipment, conveyor belts, clothing, and other materials.

Every Staticide® topical exceeds MIL-B-81705 specifications for static decay in accordance with Federal Test Standard 101, Method 4046.



Staticide®, the original anti-static concentrate, is the key ingredient in many ACL anti-static solutions. Once diluted with water or isopropyl alcohol, it eliminates a host of static control problems - especially in the electronics, textiles, and plastics industries. Staticide® Concentrate saves freight, handling, and storage costs while offering greater flexibility in dilution. Mix in the following concentrate-to-solvent ratios to obtain these Staticide® formulations:

- \* Heavy Duty Staticide® 1 to 39 (1 part Staticide® to 39 parts solvent)
- \* General Purpose Staticide® 1 to 99 (1 part Staticide® to 99 parts solvent)

Product #3000Q: Quart bottle
Product #3000G: Gallon bottle
Product #3000D: 50-gallon drum



#3000G / #3000Q



#3030G / 3030Q

# 3030 - STATICIDE® 30 CONCENTRATE

Staticide® 30 contains zero nitrates and zero chlorides. This formula can be used for many applications, but is designed for shielded bag manufacturing. No special storage cabinet is necessary as the concentrate is not flammable.

Dilute 1 part Staticide® 30 Concentrate to 99 parts isopropyl alcohol. It is also suitable to dilute with water.

Product #3030Q: Quart bottle Product #3030G: Gallon bottle Product #3030D: 50-gallon drum

# STATICIDE® TOPICAL ANTI-STATS



# STATICIDE® READY-TO-USE DILUTIONS

ACL produces Staticide® dilutions that are non-staining, completely biodegradable, and safe to use. They can be applied by spraying, wiping, dipping, transfer roller coating, gravure coating, or flexographic printing.

Every Staticide® topical dilution is proven to be effective in relative humidity below 15%.

One gallon covers approximately 2000 sq.ft. and will last from weeks to months, depending on the application.

# **HEAVY DUTY STATICIDE® for Porous Surfaces**

Ideal for eliminating static-related problems such as:

- Electrostatic discharge on carpeting and fabrics
- \* Jamming or slipping of materials during printing, packaging, or converting
- \* Ignition of combustible vapors, dust, or solvents, causing fire or explosion

Product #2005: Quart bottle / 12 quarts per case (includes trigger sprayer)

Product #2002: Gallon bottle / 4 gallons per case

Product #2002-5: 5-gallon pail Product #2002-2: 50-gallon drum



#2002 / 2005

# GENERAL PURPOSE STATICIDE® for Non-Porous Surfaces

Solves static-related problems such as:

- Attraction of dirt, dust, and bacteria to all environmental surfaces, plastic products, and product packaging
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components
- \* Damage or destruction of sensitive electronic equipment, components, and sub-assemblies during manufacture, shipping, and receiving
- \* Data processing glitches such as memory loss, data errors, and paper jams

Product #2003: Quart bottle / 12 quarts per case (including trigger sprayer)

Product #2001: Gallon bottle / 4 gallons per case

Product #2001-5: 5-gallon pail Product #2001-2: 50-gallon drum



#2001 / 2003

# STATICIDE® STATIC SENTRY Anti-Static Spray

Staticide® Static Sentry uses the same Staticide® surfactants that are used in the Staticide® topicals, but is packaged in an aerosol can for easy application and convenience.

- \* Solvent-based, so it dries more quickly than water-based topicals
- \* Aerosol allows for fine mist application
- \* Use on trays, tote bags, dip tubes, storage bins, packaging, and film
- \* Easily applied on walls, ceilings, carpets, fixtures, conveyor belts, clothing, and equipment

Product #2006: 12 oz (340g) can / 12 cans per case



#2006

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# STATICIDE® TOPICAL ANTI-STATS

# STATICIDE TOPICALS AND ESD COATINGS: TWO EFFECTIVE SOLUTIONS

Staticide® topicals are made from surfactants that are organic ammonium cations. When used properly, Staticide® topicals will decay static to a zero charge and prevent tribogeneration. Topical anti-stats are ideal for seasonal static problems and manufacturing issues. Though long-lasting, they are not permanent

The Staticide® ESD Safety Shield is a true coating made from proprietary polymer resins that will form a mechanical bond and will not wash away with water. Rather than decay a charge, this product will provide a surface resistivity that is dissipative. These ESD-safe coatings are designed for parts carriers, conveyor shields, and molded plastic parts that are part of an electrostatic-protected area (EPA) or in any environment where the circuit is grounded.



# SW12 - STATICIDE® WIPES Keep Equipment Clean and Static Free

Staticide® wipes are the ideal anti-static applicator for keeping electronics and equipment clean and static-free. Staticide® wipes have the same long-lasting protection against static as our Staticide® topical liquids, but offer a one-step cleaning and static control solution.

- Ideal for use on hard surfaces such as plastic, non-painted metal, and glass
- \* Long-lasting, non-toxic, biodegradable
- \* Help prevent dust buildup
- \* One-step cleaning and static control
- \* Safe for all electronic equipment
- \* Help prevent system interruptions and static discharge shocks

Product #SW12: 5" x 8" individually wrapped wipes / 24 wipes per box / 12 boxes per case



# STATICIDE® CLEAN ROOM

# Specially Formulated Solution to Control Electrostatic Discharge in Cleanrooms

Staticide® Clean Room is an economical formula that is sodium- and chloride-free. It eliminates static electricity on floors, chairs, worksurfaces, glass, plastics, and other static-prone materials.

- \* Filtered to less than 0.5 microns
- **★ Bacteriostatic**
- Non-toxic and non-corrosive
- No powdering or outgassing
- \* Sodium- and chloride-free
- \* Suitable for class 100 and above industrial cleanrooms
- \* Bottle is non-outgassing and anti-static
- \* Bottle ink will not chip or flake

Product #5001: Quart bottle / 12 quarts per case (pour top)

# STATICIDE® ESD SAFETY SHIELD



ACL's family of anti-static coatings for plastics provides dependable protection by allowing static to dissipate at a safe rate without wearing off or losing resistivity. These coatings are made of a proprietary blend of electro-active polymers which allow the coating to be inherently dissipative, regardless of ambient relative humidity.

Staticide® ESD Safety Shield is a water-based, one-part system that can be applied in a variety of ways. Having superior optical qualities, the coating leaves a highly transparent film once applied.

The low VOC formulation will not outgas harmful or volatile components once dry. Staticide® ESD Safety Shield is particle-free and safe to use for interior application and in environments where contamination is a concern. Items coated with the Staticide® ESD Safety Shield can be cleaned and maintained with the 6001 Mat & Table Top Cleaner.

Like our Staticide® topicals, in the right situation, Staticide® ESD Safety Shield provides a cost-effective solution without sacrificing efficiency and quality. ESD Safety Shield products are suitable to use where static interferes with production assembly and ideal to use in static control environments to prevent ESD events. Use on electronic packaging, conveyor parts, or on objects in electronic assembly work areas.

- \* Translucent without appearing "milky"
- \* Adheres to a variety of plastics without chipping or peeling
- \* No silicone or chlorides; RoHS compliant
- \* Meets ANSI/ESD S20.20 for static dissipation
- \* Can be applied via flow coat, dipping, foam brush, or spray
- \* Apply to tubing, clamshell packaging, carrying trays, viewing ports
- \* Special formulations available for lower resistance and complex plastics
- \* Coverage: foam brush 1500 sq. ft. per gallon @ .5 mil dry
- \* Coverage: flow coat 600 sq. ft. per gallon @ 1.5 mil dry
- Surface resistivity: 10<sup>6</sup> 10<sup>7</sup> ohms/square average



#63001 / #6300Q

# 6300 - STATICIDE® ESD SAFETY SHIELD

The 6300 formula is designed for application on common plastics such as acrylic, PET, PETG, PVC, and polycarbonate. Curing applications can be done at ambient temperatures or accelerated through low heat. This product is ideal for plastic parts, electronic housing, bins, clamshell packaging, and shelving to prevent static build-up and maintain ESD safety standards.

Product #6300Q: Quart bottle Product #63001: Gallon bottle

# 6500 - STATICIDE® ESD SAFETY SHIELD - Aerosol

The 6500 formula, like the 6300, is designed for applications on common plastics such as acrylic, PET, PETG, PVC, and polycarbonate, but is available in an economical aerosol container. A light spray application is sufficient for excellent electrical performance. Coating cures at ambient temperatures. Intended for interior use, this product is ideal for plastic parts, bins, and shelving.

Product #6500: 8 oz can



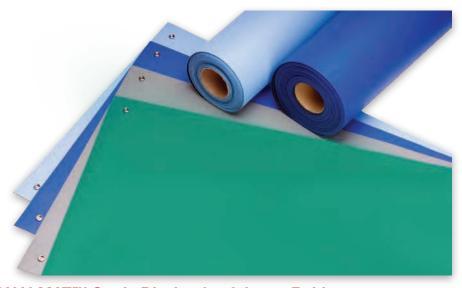
#6500

# ESD WORKBENCH PRODUCTS

# STATIC DISSIPATIVE WORKSURFACE MATERIAL

ACL offers three types of anti-static materials for tables, workbenches, carts, shelving, and tray liners. Each mat style is chemically cross-linked to conform to strict ESD requirements and meets electrical and environmental industry standards. The materials are permanently dissipative even in low humidity and will not lose electrical properties due to outgassing or age. ACL's dissipative mats are as durable as rigid laminates and as comfortable and appealing as any rubber or vinyl materials on the market.

- \* Compliant to ANSI/ESD S20.20 and RoHS
- \* Low outgassing and VOC
- \* Durable surface withstands soldering iron contact and does not curl from heat
- \* Embossed surface reflects no glare and adds gripping power so parts do not slip
- \* UV-protected so color will not fade
- \* Rapid and safe drain allows static to decay in .05 seconds
- \* Electricals are warranted for the lifetime of the mat



# **DUALMAT™** Static Dissipative 2-Layer Rubber

Dualmat<sup>™</sup> is a heavy-duty, ESD-safe rubber material. This two-layer, industrial-grade elastomer is dissipative on the colored side and conductive on the black side, making it ideal for constant monitors. The layers will not delaminate, as the material is bonded through cross-linking. Dualmat<sup>™</sup> is suitable to use in cleanrooms due to low outgassing.

- \* Two-layer .080" (2 mm) thickness
- Available in 4 colors: 8085 light blue, 8185 green, 8285 royal blue, and 8385 dark gray
- \* 40 ft. rolls available in 24", 30", 36", and 48" widths
- \* Available in pre-cut sizes with two female 10mm snaps installed
- \* Customization such as rounded corners and special sizes are available
- Second Grounding Hardware is available separately (see page 10)



# **ESD WORKBENCH PRODUCTS**



# **GEMINI STATIC DISSIPATIVE VINYL**

Gemini static dissipative worksurface material is a two-layer thermoplastic vinyl that is inherently dissipative on the top side and conductive on the bottom side. Made in the USA, this ESD-safe table mat material offers high value at a lower cost.

The material is 100% recyclable, so scraps and old mats may be recycled rather than tossed.

- Resistance point-to-point as per STM 4.1 averages 106 108 ohms
- Resistance to ground as per STM 4.1 averages 10<sup>6</sup> 10<sup>8</sup> ohms
- Two-ply .065" (1.65 mm) thickness
- Available in two colors including: #58 light gray and #59 royal blue
- \$ 50 ft. rolls available in 24", 30", and 36" widths
- \* Available in pre-cut sizes with two female 10mm snaps installed
- \* Customization such as rounded corners and special sizes available
- Made in the USA



# SPECMAT-H HOMOGENEOUS STATIC DISSIPATIVE VINYL

SpecMat-H is a static dissipative, homogeneous worksurface material. This thermoplastic vinyl material is inherently dissipative throughout. Made in the USA, this ESD-safe table mat material offers high value at the lowest cost. The thicker material is ideal for extra cushioning. The

single layer is suitable for assembly work where constant monitors are not used.

The material is 100% recyclable, so scraps and old mats may be recycled rather than tossed.

- \* Resistance point-to-point as per STM 4.1 averages 108 109 ohms
- Resistance to ground as per STM 4.1 averages 108 109 ohms
- \* Available in #62 light blue
- \$ 40 ft. rolls available in 24", 30", and 36" widths
- \* Available in two thicknesses: 1.6 mm or 2.54 mm
- \* Available in pre-cut sizes with two female 10mm snaps installed
- \* Customization such as rounded corners and special sizes available
- \* Recyclable
- Made in the USA





# 6800 - CONDUCTIVE CHAIR MAT AND FLOOR RUNNERS

ACL's Conductive Chair Mat is made from an engineered PVC with inherent electrical properties that will last the lifetime of the mat. The homogeneous distribution of carbon black and proprietary polymers give this conductive thermoplastic vinyl a continuous and permanent path to ground. Electrical properties are impervious to damage caused by moving furniture, so the conductive circuit remains unbroken while guarding against scratching and scuff marks.

- Resistance measures 103 106 ohms per ANSI/ESD S7.1-2005
- Flectricals are warranted for the lifetime of the mat
- \* Single layer, stippled surface
- \* .090" (2.29 mm) thickness
- Recyclable

Product #6800: 46" x .090" x 50" Black Product #6836: 36" x .094" x 75' Black Product #6848: 48" x .094" x 75' Black



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# **ESD WORKBENCH PRODUCTS**

# 6001 - MAT & TABLE TOP CLEANER

ACL's popular anti-static, non-abrasive cleaner can be applied on just about any surface. Leaving no film, it is ideal for general use on workstations, table tops, and anti-static mats. Without degrading a surface's anti-static properties, this non-streaking and non-flammable cleaner effectively removes flux residues, oily finger marks, grease, nicotine, dirt, grime, and inorganic contaminants.

- \* Eliminates unsightly film or other residue that may build up on static-sensitive areas
- \* Maintains original surface resistivity of anti-static mats and workbenches
- \* Cleans, rejuvenates, and extends the life of ESD mats
- \* Contains no alkali or ammonia
- Designed for cleaning any production area including assembly, testing, and areas where sensitive electronic components are handled

Product #6001S: 2 oz bottle / 24 per case (includes finger pump)
Product #6001: Quart bottle / 12 per case (includes trigger sprayer)

Product #6002: Gallon bottle / 4 gallons per case

Product #6001-5: 5-gallon pail Product #6001-2: 50-gallon drum



#6002 / 6001

# #8090

# **GROUNDING HARDWARE**

ACL offers three types of ground cords for connecting dissipative mat materials to an earth grounding point. Suitable to use with static dissipative matting materials that have a 10mm female snap installed, each style comes equipped with 10' coated high-strength tensile wire, 10mm male stud, and 1 megohm resistor. Available in black or green.

**#8090 Mat Ground Cord** offers a simple and clean connection between the mat and the ground source. The 10mm male stud is built into the dome-styled, low-profile, molded head.



**#8091 Common Point Ground** is equipped with two banana jacks for quick plug-in connections for wrist straps, meters, and constant monitors.



**#8092 Bench Mount** attaches under workstations and provides a parking system for two wrist straps. It can connect to a mat with the use of a banana-to-snap cord.



**Snap Fastener Kit** Use with mat materials for attaching ground cords with 10mm male stud. Includes 10mm female socket and compatible eyelet.

**#8010PK** includes 10 pairs **#8025PK** includes 25 pairs

# **ESD WORKBENCH PRODUCTS**





#7001 / #7002 / 7016

# 7001 - STATICIDE® HI TECH HAND LOTION

Replenish the vital moisture on skin that is important to wrist strap performance. This static dissipative hand lotion is equipped to prevent and handle static discharge, especially in the electronics industry. Hi Tech Hand Lotion helps keep the skin moistened without risk of contamination. Hi Tech Hand Lotion also complies with DOD 1686A and DOD HDBK 263.

- Static dissipative
- \* No glycerin, silicone, lanolin, or mineral oil
- Improve wrist strap performance
- **★ Fragrance-free**

Product #7001S: 2 oz squeeze tube / 24 tubes per case
Product #7001: 8 oz squeeze tube / 24 tubes per case
Product #7016: 16 oz bottle (pump top) / 12 bottles per case
Product #7002: Gallon bottle (pump top) / 4 gallons per case

# 5075 - STATICIDE® ESD STATIC DISSIPATIVE WASTEBASKET

This static dissipative, high-impact, non-black container is made of a high-density polyethylene. It contains no carbon, dyes, or additives, making it ideal for all applications demanding cleanliness. This container will not tribogenerate static. The wastebasket is ideal for cleanrooms, manufacturing, inspection, quality control, and research industries. The container may be used alone or with product #5076 Anti-Static Wastebasket Liner.

- Size: 13" diameter x 21.75" high (11 gallons)
- Non-outgassing
- Permanently dissipative
- \* Safe to use in solvent areas
- \* Cleanroom and environmentally safe

Product #5075: 11-gallon wastebasket / 5 wastebaskets per case



#5075

# 5076 - ANTI-STATIC WASTEBASKET LINERS

These roomy, single-layer polyethylene, anti-static trash can liners are humidity independent and amine-free. The average resistance of the liners is 1010 ohms. Static decay rate is less than two seconds per Mil-B-81705D Type II-Federal test method 101C method 4046.

- Medium liners fit in 11-gallon containers like the #5075 Wastebasket
- Medium sized liner thickness: 1.5 mil
- Extra large liner thickness: 2 mil

Product #5076: Medium 24" x 36" Pink liner / 50 bags per case
Product #5076B: Medium 24" x 36" Black liner / 50 bags per case
Product #5078: Extra Large 40" x 46" Pink liner / 100 bags per case

Extra Large 40" x 46" Pink liner / 100 bags per case



#5076



#5076B

# ESD WORKBENCH PRODUCTS

# LATEX ESD FINGER COTS

For economical static protection, ACL's Staticide Latex ESD Finger Cots protect boards from ESD and contaminants such as skin salts, oils, and particulates. While anti-static pink latex is commonly recognized for being effective for static control, black latex offers added security for those specifying mid-range static dissipation. Washed and powder-free, the inherent elasticity of latex allows for a comfortable fit that is easy wear.

- \* Powder-free / ISO 5 / Class 100 Cleanroom
- ₱ 70LA 10<sup>10</sup> ohms RGP as per ANSI-ESD SP15.1 when using CAFE method
- 80LA 10<sup>7</sup> ohms RGP as per ANSI-ESD SP15.1 when using CAFE method
- \* Available in sizes small, medium, large, and extra large

Product #70LA: Pink; 720 cots per pack Product #80LA: Black; 720 cots per pack

# **NITRILE ESD FINGER COTS**

ACL's Nitrile ESD Finger Cots take the worry away for those with latex allergy issues while offering protection against skin and oil contamination. Since nitrile is resistant to many chemicals, it will not dissolve under chemical contact. The inherently anti-static nature of nitrile also offers natural static control without carbon shedding. For EPAs where cleanliness is a concern, blue does not expose as much handling soils. For companies using both non-ESD and ESD finger cots, ACL offers white finger cots to differentiate ESD protection.

- \* Powder-free / ISO 5 / Class 100 Cleanroom
- \$ 109 ohms RGP as per ANSI-ESD SP15.1 when using CAFE method
- \* 3 mil thickness
- \* Available in sizes small, medium, large, and extra large

Product #90NI: White; 720 cots per pack Product #100NI: Blue; 720 cots per pack

# **NITRILE ESD Gloves**

ACL's Nitrile ESD Gloves safeguard against damage caused by static discharge and contamination. The inherently anti-static nature of nitrile also offers natural static control without carbon shedding. For EPAs where cleanliness is a concern, these disposable gloves are manufactured without plasticizers, silicone, or powders.

- \* Powder-free / ISO 5 / Class 100 Cleanroom
- \* Consistently low particulates and extractible ion levels
- ₱ 109 ohms RGP as per ANSI-ESD SP15.1 when using CAFE method
- 8 6 mil thickness
- \* Available in sizes small, medium, large, extra large, and double extra large.

Product #GL9NI 100 individual 9" gloves per pack; 5 packs per case Product #GL12NI 100 individual 12" gloves per pack; 5 packs per case

# **KNIT ESD Gloves**

ACL's Knit ESD Gloves protect against static discharge without sacrificing ergonomic performance making them ideal for detailed assembly and inspection work. This washable and reusable, seamless-knit constructed glove is available with and without polyurethane finger tips.

- \* Blended nylon-conductive carbon yarn
- \* Low moisture absorption
- **SECTION SECRET SECTION SECRET SECTION SECRET SECTION SECRET SECTION SECRET SECTION SECRET SECTION SE**
- \* GLKT (with tips) 108 ohms RGP as per ANSI-ESD SP15.1 when using CAFE method
- 8 6 mil thickness

Product #GLK 6 pairs per pack; 6 packs per case

Product #GLKT: with tips; 6 pairs per pack; 6 packs per case







#GL9NI, #GL12NI



# STATICIDE® STATIC DISSIPATIVE FLOOR PAINT



# 4700 SS - STATICIDE® DIAMOND ESD PAINT

This carbon-loaded, water-based polyurethane coating for concrete dissipates static discharge for cost-effective static control. Designed for interior concrete floors and unfinished surfaces, this ESD paint is perfectly suited for EPA manufacturing areas, static-controlled workspaces, data centers, warehouses, and creating Faraday cages.

A truly reliable static dissipative surface, this product conforms to ANSI/ESD S20.20 when grounded and tested according to test method STM 7.1 - 2013.

Copper grounding strips (2" wide) for grounding to an earth grounding point are available. Copper is 1.4 mil thickness (2.6 mil thickness with the conductive adhesive backing).

# Test patch recommended.

- VOC: Less than 1.04 lbs / gallon (125g / liter)
- Stocked in dark gray only
- Conforms to ANSI/ESD S20.20-2014 when tested according to ANSI/ESD STM7.1

Product #4700-SS1: Gallon pail Product #4700-SS5: 5-gallon pail

Product #8095: Grounding Strips: 2" x 12" copper strip

# **ACL 10R PRIMER**

Use ACL 10R Primer as a sealer for concrete before applying the 4700SS Diamond ESD Paint. This non-toxic primer dries clear and is ready-to-use. It provides enduring protection against water penetration damage on unsealed concrete.

Product #ACL 10R-1: Gallon pail Product #ACL 10R-5: 5-gallon pail Product #ACL 10R-2: 54-gallon drum

# **NEUTRAL CLEANERS**

These anti-static cleaners are low-foaming and produce constant detergency. They can be used in all facilities, as they leave no film or streaks, and are safe for septic and sewage systems. Anti-static properties of the production environment will not be degraded with these non-abrasive cleaners. Containing no phosphates or alkalis, ACL Neutral Cleaners are perfect products for cleaning ESD paint.

- Non-abrasive
- \* No containments
- \* Neutral pH
- Neutral charge
- \* For use on concrete, ESD tile, and painted floors

# **4020 - NEUTRAL CLEANER CONCENTRATE**

Dilution ratio: 1:128 (1 part cleaner to 128 parts water) Coverage: 10,000 sq. ft. per diluted gallon (approximately)

Product #4020-1: Gallon bottle / 4 gallons per case

Product #4020-5: 5-gallon pail Product #4020-2: 54-gallon drum

# **4030 - NEUTRAL CLEANER READY-TO-USE**

Coverage: 300 sq. ft. per gallon (approximately) Product #4030-1: Gallon bottle / 4 gallons per case

Product #4030-5: 5-gallon pail Product #4030-2: 54-gallon drum



#4700 SS



#4020



#4030



# STATICIDE® STATIC DISSIPATIVE FLOOR FINISHES

# DISSIPATIVE FLOOR FINISHES

ACL's family of ESD floor finishes has a wax to suit your company's individual needs. Each finish meets the ANSI/ESD S20.20 standard for static control and has a static decay time of less than two seconds when tested per EIA 541. All finishes are non-toxic, biodegradable, RoHS compliant, and have low VOC. Our finishes are easily maintained, do not require buffing, and provide superior performance.

Coverage: 1500 - 2000 sq. ft. per gallon (approximately)

VOC less than 4%Solids: 20% ± 5%



#4600

# 4600 - STATICIDE® ULTRA

No other ESD floor finish can match Staticide® Ultra for electrical properties, physical longevity, and gloss. Staticide® Ultra utilizes the latest technology in static dissipative polymers that act on a molecular level. This enhances its static control ability and effectiveness, and maximizes the stripping cycles.

- \* Provides superior abrasion performance
- \* Dries faster and with higher gloss intensity than other ESD finishes
- \* UL listed for slip resistance
- \* Strip cycle: 12 24 months
- Suitable to use on vinyl, linoleum, and ceramic tile

Product #4600-1: Gallon bottle / 4 gallons per case

Product #4600-5: 5-gallon pail Product #4600-2: 54-gallon drum



#4000

# 4000 - STATICIDE® ACRYLIC

Staticide® Acrylic is a high-solids, low-cost method of protecting your sensitive manufacturing areas from the dangers of static buildup. Perfect for production areas, warehousing, shipping, laboratories, and electronic repair facilities.

- \* Competitively priced
- **♦ UL listed for slip resistance**
- \* Strip cycle: 6 12 months
- \* Suitable to use on vinyl, linoleum, and ceramic tile

Product #40001: Gallon bottle / 4 gallons per case

Product #40005: 5-gallon pail Product #40002: 54-gallon drum

# STATICIDE® STATIC DISSIPATIVE FLOOR FINISHES



# 4800 - STATICIDE® ULTRA II

Advanced acrylic polymer allows superior adhesion and static control for out-of-warranty ESD floors and other special surfaces. It does not vellow or flake and is tough to scuff. This long-life floor finish will revitalize shine and electrical properties of old ESD tile.

- Adheres to ESD tile
- Enhanced abrasion performance
- Strip cycle: 12 18 months
- \* Suitable to use on concrete, epoxy, ESD epoxy, and dissipative tile
- Resistance RTT per ANSI/ESD STM 7.1: 10<sup>7</sup> 10<sup>9</sup> average

Product #4800-1: Gallon bottle / 4 gallons per case

Product #4800-5: 5-gallon pail Product #4800-2: 54-gallon drum



# 4100 - STATICIDE® RESTORER CLEANER

Staticide Restorer Cleaner renews gloss and prolongs strip cycles on dissipative floor finishes. Using a special conductive ingredient. Staticide® Restorer is able to clean while simultaneously breaking down electrical discharge. This non-abrasive, biodegradable formula does not contain harmful chemicals like ammonia, phosphates, or alkali. It is tough enough to remove black heel marks, yet gentle enough to return floors to safe specifications.

- \* Coverage: 1000 1500 sg. ft. per gallon (approximately)
- **Static Dissipative:** 10<sup>7</sup> 10<sup>9</sup> ohms average @ 100 volts
- Dilution ratio: 1:10 (1 part cleaner to 10 parts water)

- \* Suitable for heavy duty cleaning on Staticide® static dissipative floor finishes and dissipative tile

Product #4100-1: Gallon bottle / 4 gallons per case

Product #4100-5: 5-gallon pail Product #4100-2: 54-gallon drum



#4100

# 4010 - STATICIDE® ANTI-STATIC STRIPPER

Staticide® Anti-Static Stripper provides a completely clean and finish-ready surface by emulsifying dirt and residual particles of old wax or coating. Effective in hard or soft water, this biodegradable, low-foaming formula removes multiple coats of wax, synthetic floor finishes, and embedded dirt without damaging or dulling floors.

- Coverage: 5000 sq. ft. per gallon (approximately)
- Dilution ratio: 1 to 4 (1 part stripper to 4 parts water)
- **ℜ** Non-toxic
- \* Biodegradable

Product #4010-1: Gallon bottle / 4 gallons per case

Product #4010-5: 5-gallon pail Product #4010-2: 54-gallon drum



#4010



# POCKET-SIZED RESISTANCE METERS

ACL's handheld resistance meters give the advantages of megohmmeters, but at an economical price and compact size. The meters measure resistance-to-ground (RTG) and surface with a test range of 10<sup>3</sup> - 10<sup>12</sup> ohms. Built-in electrodes can be used for quick checks on ESD mats, and an optional weight kit can be used for testing in accordance with ESDA standards requiring five-pound probes. Meters automatically generate a 10v or 100v test voltage with results shown in multi-colored LED display.

These meters are designed to be used in all facets of material production including engineering, maintenance, quality control, incoming inspection, manufacturing, research, or sales for testing anti-static mats, floor finishes, paints, wrist straps, smocks, footwear, bags, and containers.

All meters include a calibration certificate and are warranted one year from date of purchase on parts and labor. Calibration is recommended every 12 months.

- Measure resistance-to-ground (RTG)
- Measure resistance point-to-point (RTT)
- ★ Test range of 10³ 10¹² ohms
- Automatically generate a 10v or 100v test voltage
- \* Test results shown in multi-colored LED display
- Include ground cord and zippered pouch



#ACL 380

# **ACL 380 - SURFACE METER**

The ACL 380 meter has a wider ranging LED display than typical pocket-sized units. Half decades between 10<sup>5</sup> - 10<sup>10</sup> allow for test results to show a closer indication to the measurement value. The four LED color segments indicate the test value's electrical meaning (conductive, dissipative, or insulative) including a "warning" stage that alerts users when materials are going out of specification. Soft rails enhance contact on hard surfaces such as concrete.

- Four-color LED display segments (including warning stage)
- Half decades for greater accuracy
- \* Internal rails: tin copper wire
- Size: 2.8" x 5.1"x 1.4"

# ACL 381 - Accessory Kit for ACL 380

External probes meet industry standards for testing resistance point to point (RTT) and volume resistance. Includes foam-lined carrying case, two five-pound probes, and test leads.



The ACL 395 meter has the same features as the ACL 380, but has a stylish facade and the best conductive rails available. The integrated test button gives a flush sophisticated appearance while functioning with ease. Soft conductive rails allow for better contact on soft and hard surfaces.

- \* Same decade range and half decades as the ACL 380
- ♠ Internal rails: conductive rubber
- Integrated faceplate and button
- Size: 2.8" x 5.1"x 1.4"

# ACL 396 - Accessory Kit for ACL 395

External probes meet industry standards for testing resistance point-to-point (RTT) and volume resistance. Includes foam-lined carrying case, two five-pound probes, and test leads.



**#ACL 395** 



# **ACL 800 - DIGITAL MEGOHMMETER**

The ACL 800 is ideal for measuring the resistance of packaging, smocks, anti-static mats, work surfaces, and flooring. Built-in electrodes can be used for quick checks on ESD mats and external probes can be used for testing in accordance with ESDA standards requiring five-pound probes, such as STM 4.1 and STM 7.1, European Standards IEC 61340-4-1, 61940-2-3, and 61340-4-5. Kits include two five-pound probes, test leads, and a foam-lined carrying case.

- Measurement range for 10v resistance: 10³ 10⁶ ohms
- Measurement range for 100v resistance: 10⁴ 10¹² ohms
- \* Measures relative humidity: 10% to 90% RH
- Measures temperature: 32°F to 100°F (0°C to 37.7°C - also available in Celsius)
- Includes internal test probes for testing STM11.11 and ASTM D-257
- \* Weight: 14 lbs
- **\*** Accuracy:  $10^3 10^8$  ohms = ± 5%
  - $10^9 10^{12}$  ohms =  $\pm 9\%$

# MODEL 800 Environment & Megohmmeter Megohmm

#800

# **RESISTIVITY PROBES**

Each ACL resistivity meter comes equipped with two jacks for external probes for measuring resistance point-to-point (RTT), resistance-to-ground (RTG), volume resistance, and also for using a concentric ring probe. Contact surface for all electrodes below use soft conductive rubber.

# **ACL 255 Resistance Probes**

Made in accordance with ANSI/ESD STM 4.1, ACL's five-pound probes electrodes come equipped with conductive rubber pads for superior contact. Attached handle allows for easy toting. Machined steel is drilled to accommodate 4mm banana jack cables. These are the same high quality electrodes included with the ACL 381, ACL 396, and ACL 800 kits.

- \* Powder coated for rust prevention
- \* Made in the USA

**#ACL 255** 

# **ACL 806 Dual Point Pen Probe**

ACL's Dual Point Pen Probe is a precision instrument for measuring resistance between two points. Its small size is ideal for measurements in hard-to-reach areas where five-pound probes don't fit. Compatible with all ACL resistivity meters.

- \* Conforms to ANSI/ESD STM11.13-2006
- Spring-loaded electrodes with conductive rubber boots
- Made in the USA



#ACL 806

# **ACL 807 Concentric Point Probe**

The ACL 807 Concentric Point Probe is a precision instrument for measuring surface resistivity in compliance to ANSI/ESD STM11.11. The portability and comfortable ergonomic design allow the user to audit specimens in the field and laboratory without sacrificing the accuracy that comes with five-pound concentric ring probes.

- \* Conforms to ANSI/ESD STM11.11-2006 and ANSI/ESD STM11.12-2006
- Spring-loaded electrodes with conductive rubber boots
- Measuring areas 0.35" (8.89mm)
- Includes BNC coaxial cable and stereo jack adapter
- \* Made in the USA





**#ACL 807** 

# **ELECTROSTATIC FIELD METERS**

ACL's portable electrostatic field meters locate static problems by measuring the static field of a charged object. Each field meter style provides accurate readings at close distances. All meters are warranted one year from date of purchase on parts and labor. Calibration is recommended every 12 months.

# **ACL 300B PRECISION ELECTROSTATIC LOCATOR**

ACL's pocket-sized analog field meter reliably measures static charges from 0 - 30.000 volts from the electrostatic fields of charged surfaces. Readings can be measured from 1" or 4" distances using high or low circuits. Polarity is displayed. Suitable to use in manufacturing areas and in other areas where static is a concern.

- Most widely-used electrostatic locator
- Designed for close and repetitive readings
- Uses standard 9-volt battery; battery test feature
- **Solution** Services Servi
- Unique "Quick Zero" function instantly re-zeroes the instrument and provides ground compensation for the user
- Size: 4 3/8" x 2 3/8" x 1 5/16"
- Accuracy: ± 10%

# **ACL 350 - DIGITAL STATIC LOCATOR**

ACL's digital field meter indicates actual voltage from 0 - 20,000 volts at 1" away from charged surfaces. Results are displayed on a 3½-digit LCD with polarity.

- Equipped with "Power On/Hold" button and "Zero" button
- Automatic shut off after 90 seconds
- \* Range 0 80,000 volts depending on distance
- Ideal to use when precise measurements are needed
- Size: 4 <sup>1</sup>/<sub>4</sub>" x 2 <sup>3</sup>/<sub>8</sub>" x <sup>7</sup>/<sub>8</sub>"

# **ACL 450 - IONIZED ENVIRONMENT ELECTROSTATIC LOCATOR**

Measures static charges digitally from 0 - 80,000 volts in an ionized environment. Polarity is displayed. The wide range and ease of accurate repetitive measurements make this pocketsized meter ideally suited for ESD control applications where ionizers are used.

- \* Stable operation allows output for continuous monitoring over several hours
- Chopper stabilized electrode is not affected by ionizers
- Size: 4 <sup>3</sup>/<sub>8</sub>" x 2 <sup>5</sup>/<sub>8</sub>" x 1 <sup>3</sup>/<sub>8</sub>"
- \* Accuracy: ± 10%

# ACL 450CPS - Charged Plate System for ACL 450

This low-cost accessory tests and monitors the effectiveness and balance of air ionizer devices. It is designed to meet ESDA Standard DSP3.3 Periodic Verification of Air Ionizers and correlates closely to tests results from tabletop-charged plate monitors.





**#ACL 350** 



**#ACL 450** 





#ACL 450CPS



# **ACL 780 - ECONOMY COMBO TESTER**

This easy-to-use pass/fail unit will test wrist straps and heel grounders simultaneously and eliminate the need to change feet or flip switches. With speed, ease, and clarity, the colored LED shows test results. The pass/fail combo unit requires no computer, making it more cost effective for companies that do not need to record data.

# **Specifications:**

Power supply: 9-volt battery or 12-volt DC adapter (US) Test voltage: 19 volts DC  $\pm$  1 volt (open circuit) Resistance range: Wrist strap: Low: 500k, 750k ohms

High: 2M, 5M, 10M, 25M, 35M, 50M, 75M, 100M

Heel/Toe/Shoe: Low: 500k, 750k ohms

High: 2M, 5M, 10M, 25M, 35M, 50M, 75M, 100M (1000M optional - internal adjustment required)

Display: Red and green LEDs, high dB buzzer

Wrist strap jacks: Accommodates both US standard and dual-wire (constant monitor)

wrist straps

Product# ACL 780 Includes tester, footplate, 9-volt battery, and power adapter (US only)
Product# ACL 781 Includes tester, footplate, stand, 9-volt battery, and power adapter (US only)



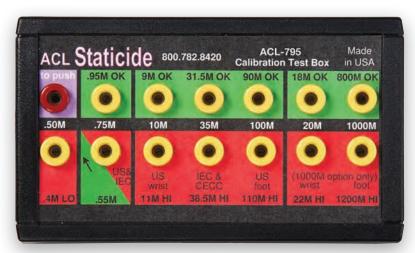
**#ACL 780** 

# **ACL 795 CALIBRATION BOX**

The ACL 795 calibration box saves time and money by allowing a company with multiple combo tester units to verify the calibration of their systems in house. This product can be used as one of the tools to comply with ANSI/ESD S20.20 paragraph 6.1.3.2 "Compliance Verification Plan."

- \* Uses ANSI/ESD S20.20 limit recommendations
- Uses 1% resistors
- ★ ±10% accuracy

Product #ACL 795 Includes test leads



**#ACL 795** 

# **ACL 750 - COMBO TESTER INCLUDING SOFTWARE**

The ACL 750 can do what pass/fail testers cannot: give actual resistance readings and store data. With the software, test results are stored on a computer that allows managers to monitor and analyze test information and help manage the company's static control program. Generated reports help guide internal policies and improve a company's productivity. Reporting will direct attention to problem employees and work areas, trends over time, and so much more.

# **Specifications:**

Power supply: 9-volt battery or 12-volt DC adapter (US) Test voltage: 19 volts DC  $\pm$  1 volt (open circuit) Resistance range: Wrist strap: Low: 500k, 750k ohms

High: 2M, 5M, 10M, 25M, 35M, 50M, 75M, 100M

Heel/Toe/Shoe: Low: 500k, 750k ohms

High: 2M, 5M, 10M, 25M, 35M, 50M, 75M, 100M (1000M optional - internal adjustment required)

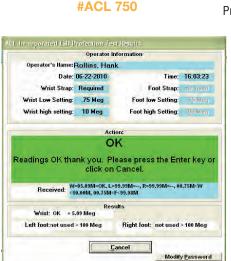
Display: Red and green LEDs, high dB buzzer

Wrist strap jacks: Accommodates both US standard and dual-wire (constant monitor)

wrist straps

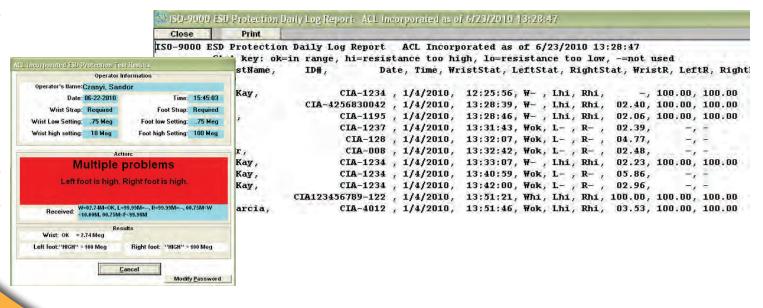
Product# ACL 750: Includes tester, footplate, stand, 9-volt battery, power adapter (US only),

RS232 cable, and software.



# **Software Features:**

- **Solution** Compatible with Microsoft Windows operating systems
- Connects multiple testers to LAN network for open exchange of database
- Tests and records resistance of wrist and heel straps simultaneously
- Customizes requirements of up to 30,000 employees
- Password protected for employees and supervisors
- Records multiple tests without limits during 24-hour cycle
- Easily stores and retrieves backed up data
- Automatically generates and emails reports to one or more recipients
- \* Interfaces with SQL database servers for remote data dumping and sharing





# ACL 741 - Accessory Proximity Reader

The proximity reader is built to company badge specifications. ACL can construct a reader for most HID, Casi-Rusco, Indala, and AWID formats unless proprietary. Send live card to ACL for testing.



**#ACL 741** 

# ACL 755 - Accessory Barcode Reader

Barcode readers are preprogrammed to a code 39. Other formats are available including card protected by infrared security mask. Send live card to ACL for testing.



# ACL 740 - Accessory Door Relay

The ACL 740 is an upgrade to the ACL 750 or 780 meter. With this option, ACL will construct a meter that comes equipped with a single throw, single pole, low-voltage relay for security door access or lockout. When an employee tests and receives a pass, the relay will close the electrical curcuit to a security door or turnstile and allow entry.



**#ACL 740** 



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# PCB PRODUCTION, REWORK, AND PROTOTYPING

# ACL Staticide Business Flux Remover No Clean Extra Common Service The Common Servic

#8607

# ACL STATICICE BY 1964 FIUX Remover Heavy Duty Par Remover Heavy Du

#8620



# PRECISION FLUX REMOVERS

Flux removal is critical to ensure reliable circuitry. In addition to being unsightly, some flux residues can contribute to short circuits, corrosion, and degrading of the printed circuit board. The type of flux to be removed, solvent compatibility, and ease of application are all factors to consider when choosing a flux remover. ACL's flux remover aerosols can be sprayed in any direction and are specially formulated to remove various flux types such as rosin, no clean, water soluble, and synthetic.

- \* Fast evaporating, non-residual
- Superior cleaning strength; surpasses general purpose contact cleaners
- \* Easy to remove
- Ozone-safe and free of CFCs and HCFCs

# 8607 ACL FLUX REMOVER NO CLEAN EXTRA

ACL Flux Remover No Clean EXTRA is a powerful cleaner formulated for quick evaporation and removal of silicone-based substrates. This plastic-safe flux remover leaves surfaces residue-free making it ideal for cleaning through-hole, BGA, SMT design circuit boards, and general electronics manufacturing and assembly.

The low surface tension formula allows access into hard-to-reach areas and rapid removal of all types of no clean flux and pastes, oxide particles, carbon, organic residues, adhesives, silicone-based conformal coatings, and greases.

- \* Formulated with high-purity solvent specific for electronics
- \* Added ESD brush with chemical resistant bristles
- \* Non-corrosive and safe for metals and components
- \* Flammable

Product #8607: 11oz (312g) aerosol can; 12 per case

# 8620 ACL FLUX REMOVER HEAVY DUTY

Highly specialized full-strength flux remover is our most plastic-safe non-flammable flux remover. This product can be used in any industrial setting, and is an excellent choice when used in areas with sources of ignition or heat. This is the best ACL flux remover for eliminating encrusted synthetic fluxes on sensitive and soft plastics.

This is the ideal flux remover for medical device manufacturing and assembly, medical device prototyping, aviation, avionics, and telecom manufacturing and installation.

- \* Highly effective on all flux types
- Suitable to use in high-risk safety areas
- Excellent compatibility with plastics
- \* Non-flammable

Product #8620: 11oz (312g) aerosol can; 12 per case

# 8621 ACL FLUX REMOVER ROSIN

Flux Remover Rosin is a fast-drying aerosol that quickly and completely removes R, RMA, RA, and synthetic flux residue. With its low surface tension and superior wetting properties, Flux Remover Rosin removes harmful residues in tight tolerance areas.

The ACL Flux Remover Rosin is plastic-safe and suitable to use on printed circuit boards, motors, generators, metal housings, plugs, relays, contacts, switches, surface mount devices, and pads.

- \* One cleaner for companies using different rosin types
- Best flux remover for synthetic rosin types
- \* Flammable

Product #8607: 11oz (312g) aerosol can; 12 per case



# 8622 ACL FLUX REMOVER LEAD-FREE

This powerful solvent removes heavy and encrusted flux deposits resulting from high temperature lead-free soldering applications. This extra strength cleaner quickly removes all types of flux, oxide particles, carbon, dust, grease, and oil. It evaporates quickly, leaving no residues.

- \* Highly effective on the most difficult to remove lead-free products.
- \* Flammable

Product #8622: 11oz (312g) aerosol can; 12 per case



#8622

# 8623 ACL FLUX REMOVER NO CLEAN

This extra strength solvent is an excellent choice for removing all synthetic rosin and no clean fluxes. Non-corrosive, this formula is particularly safe to use on metal. Equipped with an ESD brush, this is our best cleaner for zero white residue.

- \* Remove aged and oxidized no clean flux
- \* Leaves no white residue
- **★ Flammable**

Product #8623: 11oz (312g) aerosol can; 12 per case



#8623

# 8624 A4 ALL PURPOSE FLUX REMOVER AND CLEANER

A4 All Purpose Flux Remover and Cleaner is an extra strength solvent that has a powerful spray and strong solvent that blasts off residues and cleans areas under components that brushing cannot reach. An environmentally friendly replacement for HCFC-141b, NPB, and AK-225.

This non-flammable flux remover is a benchtop essential for removing most types of fluxes used in general industrial electronic settings such as electronics manufacturing, rework assembly, and military defense.

- Wide variety of cleaning applications
- Most aggressive non-flammable remover for solder fluxes
- \* Non-flammable

Product #8624: 12oz (340g) aerosol can; 12 per case



#8624



# STATICIDE® ELECTRONIC AND ALL-PURPOSE CLEANERS

ACL's aerosol cleaners are formulated with unique properties suited to specific applications. Our precision electronic cleaners and degreasers are made for critical electronics cleaning, electrical assemblies, and sensitive components. Our all-purpose cleaners for non-electronic applications are indispensable favorites for their versatility and reliability in cleaning a multitude of surfaces.

Using the finest high-purity solvents to remove environmental contaminants, the electronic cleaners are innocuous to solvent sensitive components and protect from corrosion, frictional wear, and insulative oil and grease. All aerosol cleaners have 360° spraying abilities and leave no residue.





#8601

#8604

# 8601 ELECTRONICS CLEANER DEGREASER PF

This extra strength universal cleaner and degreaser is aggressive enough for removing light grease and carbonized soils, but still safe to use on plastics. It is an ideal all-purpose cleaner that is designed for fiber optics and telecommunications, but can also be used in general purpose electronics rework and repair applications.

- Effective in fiber optics and telecommunications
- Safe for plastic and glass
- \* Flammable

Product #8601: 12oz (340g) aerosol can; 12 per case

# 8604 ELECTRONICS RINSE VT

Electronics Rinse VT is a low-odor economical alternative to other universal electronics contact and assembly cleaners with super evaporation properties. This plasticsafe solvent is our best non-residual electronics cleaner and an excellent replacement for HCFC-141b.

- \* Essential electronics cleaner for semi-conductor and PCB applications
- \* Aggressive cleaner for heat sink greases
- \* Non-flammable

Product #8604: 11oz (312g) aerosol can; 12 per case

# **8625 STATICIDE IPA**

An essential work bench companion for the removal of solder pastes, inks, adhesives, and flux residues, Staticide® IPA is indispensable for general cleaning applications and removing contaminants.

- ₱ 98.8% pure isopropyl alcohol
- \* Ideal for electronics cleaning and flux thinning
- \* Flammable

Product #8625: 12oz (340g) aerosol can; 12 per case

# 8670 PLASTIC AND GLASS CLEANER

A single application of this anti-static foam cleaner removes electrostatic buildup while also removing dirt, grease, ink, fingerprints and nicotine stains. The high foaming solution will not streak, smear, scratch, or abrade. Transparent surfaces are left spotless for improved optical clarity and distortion-free reading.

- \* Foaming spray won't run or drip
- \* Ideal for viewing ports, computer monitors, and electronic housing
- Non-flammable

14oz (397g) aerosol can; 12 per case Product #8670:











#8670



# STATICIDE® LUBRICATING CLEANERS

These unique two-in-one lubricating cleaning products provide consistent and reliable performance true to the Staticide name. Using extremely pure chemicals in the formulations, these 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.

# 8606 LUBRICANT CONTACT RENEW

Our one-step contact restorer and lubricant is ideal for all PCB applications.

- \* Highly effective moisture displacement
- \* Restore corroded circuits and contacts
- \* Removes problematic carbonized soils
- **⊗** Non-flammable

Product #8606: 11oz (312g) aerosol can; 12 per case

# 8608 PL40 PREMIUM PENETRATING LUBRICANT

This peak-performance cleaner and aggressive universal lubricant is suitable for loosening frozen moving parts such as hinges, joints, and solenoids.

- \* Penetrates deep to remove corrosion on machine parts and equipment components
- \* High solid content allows for superior lubrication
- \* Flammable

Product #8608: 11oz (312g) aerosol can; 12 per case





# STATICIDE® SOLDER MASKING AGENTS

Keep the solder on the pad and protect components from corrosion and electrical shorts during conformal coating processes by leaving component-free areas on PCBs during soldering. Easy to apply and easy to remove.

# 8691 MIGHTY MASK

This peelable, fast-curing solder mask is formulated with a special, high-temperature resistant compound for short-term, high-temperature protection up to 510° F. Its superior strength allows compatibility with most flux systems and cleaning solvents. Dries tack-free in 30 minutes.

- \* Tweezer removal: convenient to use
- \* Ideal for temperature-sensitive components in hand and wave soldering
- Non-flammable water-based latex

Product #8691: 8oz (236ml) squeeze bottle with yorker spout; 12 bottles per case

# 8692 MIGHTY MASK II

Specifically designed for closed-loop systems, this washable solder mask is easily removed with inline and batch cleaning systems.

- \* Safe for use on ion beds and filters in closed-loop cleaning systems
- \* Non-flammable and non-toxic

Mighty Mask Mask II

#8691

#8692

Product #8692: 8oz (236ml) squeeze bottle with yorker spout; 12 bottles per case



# **CONFORMAL COATING**

ACL Staticide Conformal Coatings safeguard against contaminants found in harsh environmental conditions such as moisture, salt water, chemicals, and debris.

When PCBs, components, and flex circuitry are treated with one of our three formulations, the hard-shell insulative conformal coating provides a minimum dielectric strength of 1100 volts/mil, to prevent high-voltage arcing, shorts, and static discharge.

All varieties offer a fast cure time and work well in both hot and cold operating environments. A UV tracer is added for easy quality control. All products are packaged in a convenient ready-to-use aerosol spray. Each formulation is compliant to chemical regulations including RoHS and REACH.

# 8690 ACRYLIC CONFORMAL COATING

Acrylic Conformal Coating is ideal for providing insulation against high-voltage arcing and corona shorts. Extremely durable, it provides a hard, flexible protective barrier with self-healing properties to protect against nicks and scratches after curing. It is suitable for both rigid and flexible PC boards.

- Operating temperature from -75°F/-59°C to 270°F/132°C
- Fast-drying formulation with self-healing properties
- \* Flammable

Product #8690: 12oz (340g); 12 aerosol cans per case

# 8695 SILICONE CONFORMAL COATING

The Silicone Conformal Coating provides superior protection against elements that cause oxidation and corrosion including salt water and rain. It is designed for high-temperature applications in high-humidity environments.

Silicone Conformal Coating is ideal for many high-end applications including automotive manufacturing, but is the go-to choice for marine, avionic, and aerospace manufacturing.

- \* Operating temperature from -55°F/-64°C to 390°F/199°C
- Provides superior protection from saltwater corrosion
- \* Flammable

Product #8695: 11oz (312g); 12 aerosol cans per case

# 8696 URETHANE CONFORMAL COATING

The Urethane Conformal Coating provides the hardest shell coating for chemical resistance. It protects against acidic and alkaline substances making it a great choice for many general duty applications, such as HVAC, fire alarms, relays, generators, motors, and transformers.

- \* Operating temperature from -75°F/-59°C to 270°F/132°C
- \* Ideal for use in battery operated devices
- \* Flammable

Product #8696: 11oz (312g); 12 aerosol cans per case



#8690



#8695



# STATICIDE® GAS DUSTERS

ACL's ozone-safe compressed air dusters are free of CFCs and HCFCs. Each blast is engineered for specific applications.

# 8660 FREEZE SPRAY ANTI-STAT

ACL's high-performance freeze spray quickly cools off printed circuit boards with pinpoint accuracy to help identify failed electrical components, such as resistors, capacitors, and relays.

An added anti-stat in the formula prevents corrosion-causing frost and neutralizes static generation due to friction.

- Excellent for failed component identification
- \* Anti-static formula will not cause frosting
- \* Ultra-pure; filtered to 0.20 microns
- \* Non-flammable

Product #8660: 12oz (340g) aerosol can; 12 per case

# 8640 TURBO BLAST

This big blast duster for electronic cleaning applications doesn't sacrifice precision when blasts of air are applied. The anti-static formula rids surfaces of particulate contamination without adding moisture or corrosion-causing frost.

Safe to use wherever cleanliness is of concern, Turbo Blast uses only non-recycled material for ultra purity. Additional filtering provides assurance that there are no trace contaminants.

- \* Leaves no residue
- \* May be used on energized equipment
- \* Ultra pure; filtered to 0.20 microns
- \* Ideal for PCBs and laboratory equipment

Product #8640: 11oz (296g) aerosol can; 12 per case

# 8037 PRECISION DUST REMOVER II

This multi-purpose duster provides a moderate blast of air that will blow dust and debris out of the crevices of keyboards, printers, copiers, and other commercial office equipment.

- ★ Leaves no residue
- \* Ideal for computer and office equipment
- \* 100% Ozone safe

Product #8037: 10oz (284g) can / 12 cans per case



#8660



#8640



#8037

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# **CONTAMINATION CONTROL**

ACL's polycell nonwoven wipes are an excellent choice for general use or spill pickup in controlled environments. The blended hydroentangled material offers the absorbency properties of cellulose with the strength and cleanliness of polyester. Providing good wet strength, these universal wipes are suitable for tough jobs in any lab or manufacturing

To minimize contaminants, our nonwoven wipes use no binders and are cleanroom packaged and processed. These wipes present lower particle and fiber release than other comparable products.

- Material made from hydroentangled fabric
- \$ 45% polyester and 55% wood pulp blend
- Cleanroom processed and packaged to minimize contaminants
- \* Suitable for ISO Class 6 (Class 1000) environments



#8067 & #8099

# **LOW LINT POLYCELL WIPES**

Low lint wipes are economical and ideal for all-purpose cleaning in industrial environments. Soft and strong with outstanding absorbency, these low-particle wipes hold liquid without breaking down or causing lint contamination.

The robust fiber blend offers durability and cleanliness without sacrificing sorbency. Solvents will not damage fabric, making this all-purpose cleaning wipe an indispensable staple.

- Available in multiple sizes
- \* All sizes are white, with 9"x9" also available in blue
- Includes zippered pouch

Product #8067: 4" x 4" / 20 white wipes per bag / 24 bags per case Product #8044: 6" x 6" / 75 white wipes per bag / 12 bags per case Product #8099: 9" x 9" / 100 white wipes per bag / 6 bags per case 9" x 9" / 300 blue wipes per bag / 6 bags per case Product #LF99B:



#LF50E



#LF50E Blue

# **HEAVY DUTY LOW LINT WIPES**

Similar to our low lint polycell wipes, the LF50 offers a similar performance, but in a heavier gauge. Definitely our first choice in general cleaning and big cleanup jobs, this is our recommended wipe for the application of Staticide® products including our Staticide® topicals and 6001 Mat and Table Top Cleaner. Blue wipes are great for picking up clear chemicals.

- Available in white and blue

Product #LF50E: 12" x 13", 1/4 fold / 50 wipes per bag / 12 bags per case Product #LF50E Blue: 12" x 13", 1/4 fold / 50 wipes per bag / 12 bags per case

# **CONTAMINATION CONTROL**



## 8409MF - STATICIDE® MICROFIBER WIPES

The ACL Staticide® Microfiber Wipe is an excellent choice for critical task cleaning. Having four times the filaments of ordinary microfiber wipes, this hydroentangled split microfiber provides a strong and durable material that out performs other nonwovens. Whether used wet or dry, this material offers the best pickup and removal of contaminants and is an ideal choice for equipment or component cleaning in controlled environments.

Chemical solvents like isopropyl alcohol will not break down the material, making this exceptional critical cleaning wipe an indispensable staple in any contamination control program.

- \* Soft; no scratch borders
- ⊗ No lint
- \* Hydroentangled material made from a 80% polyester/20% nylon blend
- \* Binder-free; no chemical residue
- \* High durability strength and liquid absorbency
- \* Suitable for ISO Class 5 (Class 100) environments

Product #8409MF: 9" x 9" / 150 wipes per bag / 6 bags per case



#8409MF

# 8299MD - STATICIDE® MICRODENIER WIPES

Critical cleaning demands high standards. The unique fabric in our microdenier wipes attracts and holds micro-contaminants, including oil-based particles and fibers, making it ideal for many applications.

The ultrasonic sealed border combined with the silky texture of the material protects surfaces from scratching even when force is applied. Although this is ACL's softest wipe, strength is not sacrificed as the microdenier fabric is designed to withstand abrasion even when used on rough surfaces.

Free of silicon, amides, and DOP contamination, this unique nonwoven fabric is perfect for process cleaning and an ideal choice for scratch-sensitive surfaces found in optical, LCD, and hard disk drive cleaning applications.

- Super soft cloth-like fabric; no scratch borders
- ⊗ No lint
- \$ 95% polyester / 5% nylon
- \* Ultrasonic sealed edges or borders for best fiber and particle retention
- Class 10 laundered and packaged

Product #8299MD: 9" x 9" / 150 wipes per bag / 6 bags per case

#8299MD

# MFC1 - STATICIDE® BLUE MICROFIBER CLOTH

The MFC Blue Microfiber cleaning cloth is reliable for cleaning lab equipment without the use of chemicals. The sturdy construction is soft enough to avoid scratching glass surfaces and durable enough to withstand tearing or abrading. It lifts dirt and dust without effort making it a suitable dust cloth to use on optical lenses, laboratory instruments, microscopes, cell phones, computer screens, and compact disks.

- \* Soft; will not scratch
- ⊗ No lint
- Available in blue

Product #MFC1: 9" x 9" / 72 wipes per case Product #MFC24: 9" x 9" / 24 wipes per case







# **CONTAMINATION CONTROL**

# 7600 - IPA CLEANING WIPES

ACL Staticide® IPA Cleaning Wipes are an essential work bench companion for the removal of solder pastes, inks, adhesives, and flux residues. Packaged in a convenient dispensing canister, these presaturated wipes are safe for plastics and metals and suitable for cleaning printed circuit boards, hardline coax cables, and for restoring automatic and semi-automatic printer stencils to a spotless state.

- Convenient pop-up container
- \* Low lint hydroentangled nonwoven
- ₱ 50/50 blend of polyester and cellulose
- \* High-purity electronics grade isopropyl alcohol
- \* Flammable
- \* Ships ground consumer commodity

Product #7600 100 wipes per canister; 6 canisters per case

# COMING SOON TO OUR CONTAMINATION CONTROL LINE

As ACL continues to expand our critical cleaning family of consumable products, we are committed to providing innovative solutions for cleanrooms, EPAs, and other controlled environments. Like the tried-and-true polycell wipes we have offered for decades, we are sure new microfiber wipes will become workbench and laboratory staples. Other products to come include:

- \* Microfiber cleaning swabs
- \* Presaturated alcohol wipes in sealable pouches, zip-locks, and pop-ups.
- \* Heat sink grease
- \* Reflow oven cleaner
- Wrist straps and heel grounders





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