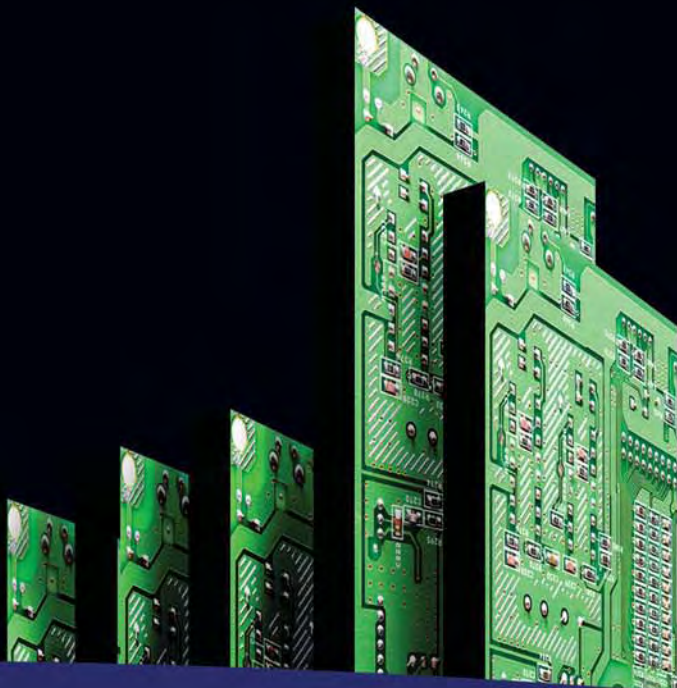




# ACL Staticide®

TAKE CHARGE OF YOUR STATIC CHALLENGES



ISO 9001:2008 Certified

## ACL INC.

### *Providing Static Control for Over 40 Years*

Since 1969, ACL Inc. has been developing innovative products to eliminate static problems. The brand name Staticide® has since become synonymous with reliable and cost-effective static protection. Our success as a world leader in static control is the result of quality products, high standards of performance, and the integrity of our people. As testimony to our dedication to providing first-class products and services, we have achieved ISO 9001:2008 certification for our quality management system.

As we move into the next decade, ACL Inc. continues in our commitment to produce static control products that comply with ever-changing international and domestic standards. We support REACH objectives of improving the protection of human health and environment and it is our policy to provide products that are safe to use and environmentally acceptable.

Our products have always met and exceeded industry standards. Even the most tightly regulated ESD areas remain safe as manufacturers are able to take charge of static problems by using our family of products:

- ✿ Anti-static coatings for plastics
- ✿ Dissipative coatings for floors
- ✿ ESD workstation products
- ✿ Static detection meters and equipment

A listing of domestic and international distributors can be viewed on our website, [www.aclstaticide.com](http://www.aclstaticide.com). Also available online are product data sheets, application procedures, and Material Safety Data Sheets.

As technology's rapid advance continues, the need to control static becomes increasingly important. Rest assured, ACL Inc. continues to develop innovative products to meet our customers' needs. When it comes to static protection, we have you covered.

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# STATICIDE® TOPICAL ANTI-STATS



#3000G

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.

Our family of solutions is used in a broad range of settings including computer rooms, manufacturing and high production environments as a cost-effective solution for eliminating static. Staticide® can easily be applied on sensitive electronic equipment, walls, ceilings, floors, carpets, fixtures, work surfaces, tools and 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.

## 3000 - STATICIDE® CONCENTRATE

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.

Staticide® Concentrate can be mixed 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: 1-quart bottle  
Product #3000G: 1-gallon bottle  
Product #3000D: 50-gallon drum

## SW12 - STATICIDE® WIPES Keep Equipment Clean & Static Free!

- ❖ 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
- ❖ Bacteriostatic

*24 individually foil wrapped 5" X 8" wipes per box / 12 boxes per case*



#SW12

# 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: 1-quart bottle / 12 quarts per case (includes trigger sprayer)  
Product #2002: 1-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 or receiving
- ⊗ Data processing glitches such as memory loss, data errors, and paper jams

Product #2003: 1-quart bottle / 12 quarts per case (including trigger sprayer)  
Product #2001: 1-gallon bottle / 4 gallons per case  
Product #2001-5: 5-gallon pail  
Product # 2001-2: 50-gallon drum



#2001 / 2003

## STATICIDE® CLEAN ROOM

### Specialty Formulated Solution to Control Electrostatic Discharge in Clean Rooms

Staticide® Clean Room is an economical formula that is sodium- and chloride-free. It eliminates static electricity on floors, chairs, work surfaces, 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 clean rooms
- ⊗ Bottle is non-outgassing and anti-static
- ⊗ Bottle ink will not chip or flake

Product #5001: 1-quart bottle / 12 quarts per case (pour top)



#5001

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# 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 allows the coating to be inherently dissipative, regardless of ambient relative humidity.

Intended for interior use, the Staticide® ESD Safety Shield is simple to use since it is a water-based one-part system. Whichever application method is chosen, this coating system will have superior optical qualities, leaving a highly transparent film once applied.

Staticide® ESD Safety Shield's low V.O.C. formulation will not outgas harmful or volatile components once dry. It is particle-free and safe to use 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. 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, and on objects in electronic assembly work areas.



#6300 / 6400

- ⊗ 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, or wherever static is a concern
- ⊗ 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:  $10^6$  -  $10^7$  ohms/square average

## 6300 - STATICIDE® ESD SAFETY SHIELD for General Use

The 6300 formula is designed for application on common plastics such as acrylic, PET, PETG, PVC, and polycarbonate. Curing this coating 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: 1-quart bottle  
Product #63001: 1-gallon bottle

## 6400 - STATICIDE® ESD SAFETY SHIELD for Polypropylene

The 6400 formula is chemically enhanced to improve adhesion to plastics like polypropylene and polyesters that normally resist coatings. The 6400 coating requires a heat cure at low temperature.

Product #6400Q: 1-quart bottle  
Product #64001: 1-gallon bottle

# STATICIDE® ESD SAFETY SHIELD



## 6500 - STATICIDE® ESD SAFETY SHIELD in Aerosol

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

Product #6500: 8 oz can



#6500

## TOPICAL VERSUS COATING

Confused about what is best for your application? Please compare:

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. Staticide® topicals are biodegradable and will fade away with time as they are exposed to the air. The Staticide® anti-stats will not rub off with friction, but can be washed off with water. Depending on the application, the dissipative residue can be effective for weeks or months. This product is an economical solution for seasonal static problems, a cleaner for maintenance in static control environments, and an anti-static coating in manufacturing, processing, and packaging industries, particularly in applications involving plastic.

The Staticide® ESD Safety Shield is a coating made from proprietary polymer resins. When used properly, Staticide® ESD Safety Shield will dissipate static to a safe  $10^8$  ohm average. It will reduce static, but static decay is not part of the specification. The electrical attributes of Staticide® ESD Safety Shield will not wash off with water or diminish like a topical anti-stat. Since the coating adheres to the substrate like paint, the surface resistance will not abate in normal conditions. This product is ideal for electronic devices, parts carriers, production conveyor shields, and electronic assembly work areas.

Staticide® Topicals	Staticide® ESD Safety Shield
Surfactant	Resin
Residue	Coating
Decays static charge	Dissipates static charge
Surface resistance: $10^9$ ohms	Surface resistance: $10^6$ - $10^9$ ohms
Temporary	Permanent
Humidity independent	Humidity independent

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# STATICIDE® STATIC DISSIPATIVE FLOOR FINISHES

ACL's family of ESD floor finishes has a wax to suit your company's individual need. 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 V.O.C. Our finishes are easily maintained, do not require buffing and provide superior performance when compared to other brands.

- ⊗ Coverage: 1500 - 2000 sq. ft. per gallon (approximately)
- ⊗ V.O.C. less than 4%
- ⊗ Solids: 20% ± 5%
- ⊗ Surface resistivity: 10<sup>8</sup> - 10<sup>9</sup> ohms/square average



#4600

## 4600 - STATICIDE® ULTRA High Quality, High Performance, Extended Stripping Cycle!

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: 1-gallon bottle / 4 gallons per case
- Product #4600-5: 5-gallon pail
- Product #4600-2: 54-gallon drum



#4000

## 4000 - STATICIDE® ACRYLIC Low Cost + High Performance = Value

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: 1-gallon bottle / 4 gallons per case
- Product #40005: 5-gallon pail
- Product #40002: 54-gallon drum

Looking for a true "clean" dissipative floor finish? ACL offers other specialty ESD floor finishes that are formulated for environmentally sensitive areas:

**4200 - STATICIDE® Zero V.O.C.:** *Free of V.O.C. and zinc, 6 month strip cycle*

**4300 - STATICIDE® Eco-Friendly:** *Low V.O.C. (DE), no APE surfactants, 12 month strip cycle*

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# STATICIDE® STATIC DISSIPATIVE FLOOR FINISHES



## 4800 - STATICIDE® ULTRA II

### Specially Formulated for Unique Industrial Surfaces

Advanced acrylic polymer allows superior adhesion and static control for out-of-warranty ESD floors and other special surfaces. Does not yellow 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

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

Product #4800-5: 5-gallon pail

Product #4800-2: 54-gallon drum

## 4100 - STATICIDE® RESTORER/CLEANER

### Restores Gloss and Extends Stripping Cycles

You invest substantial time and labor to strip and refinish your floors. Now let Staticide® Restorer renew the gloss and prolong the time before you have to start the process over again. A special conductive ingredient cleans while simultaneously breaking down electrical discharge, lowering resistivity, and returning your floors to safe specifications.

- ✦ Removes black heel marks
- ✦ No harmful chemicals like ammonia, phosphates or alkali
- ✦ Non-abrasive
- ✦ Low odor
- ✦ Biodegradable
- ✦ Suitable for the use of heavy duty cleaning on ACL Static Dissipative floor finishes and dissipative tile

Coverage: 1000 - 1500 sq. ft. per gallon (approximately)

Surface resistivity:  $10^7 - 10^9$  ohms/square average @ 100 volts

Dilution ratio: 1:10 (1 part cleaner to 10 parts water)

Solids: 25%

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

Product #4100-5: 5-gallon pail

Product #4100-2: 54-gallon drum

## 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.

- ✦ No ammonia or phosphates
- ✦ Low V.O.C. formula
- ✦ Zero tribogeneration
- ✦ Non-toxic
- ✦ Biodegradable

Coverage: 5000 sq. ft. per gallon (approximately)

Dilution ratio: 1 to 4 (1 part stripper to 4 parts water)

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

Product #4010-5: 5-gallon pail

Product #4010-2: 54-gallon drum



#4800



#4100



#4010

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# STATICIDE® STATIC DISSIPATIVE FLOOR PAINT

ACL's family of premier ESD floor coatings offers a variety of options where static control is required. These non-toxic, biodegradable finishes have low V.O.C. and are compliant to industry standards. Our paints are easily maintained and provide superior performance when compared to other brands.

- ⊗ Coverage: 250 - 300 sq. ft. per gallon (approximately)
- ⊗ Designed for concrete floors
- ⊗ Provides 100% static control, even at low humidity
- ⊗ Resists yellowing and color fading
- ⊗ ANSI/ESD S20.20 and RoHS compliant
- ⊗ Withstands alcohol, oils, gasoline and most common electronic chemicals



## 5700 - STATICIDE® PREMIUM ESD PAINT Reliable Static Control with Opulent Paint Properties

This high-performance, water-based polyurethane coating is formulated with the finest high-tech materials for consistent static protection, resilience, and brilliant appearance.

The Staticide® Premium ESD Paint is a high quality and economical alternative to ESD epoxy or ESD tile that will save in material and labor costs. Trouble-free to install and maintain, the rich viscosity of the paint allows for effort-less mixing, application and even distribution of conductive ingredients.

The color palette allows for versatility in workplace aesthetics. The light colors can be used to designate a particular work space or reflect light for a more cheerful environment. This paint is perfectly suited for electronics manufacturing, assembly, and ESD protected areas (EPAs).

### Test patch recommended.

- ⊗ Available in a variety of colors. Colors shown: blue, beige, white, dark gray, medium gray, and light gray.
- ⊗ Outperforms other ESD paints
- ⊗ V.O.C.: Less than 3 lbs / gallon ( 359.5g / liter)
- ⊗ Surface resistivity:  $10^6$  -  $10^8$  ohms/square average

# STATICIDE® STATIC DISSIPATIVE FLOOR PAINT



## 4700 SS - STATICIDE® DIAMOND ESD PAINT

ACL's economical water-based polyurethane coating dissipates static discharge on concrete and other unfinished floors. It is perfect for temporary ESD work spaces, data centers, and warehouses.

### Test patch recommended.

- ⊗ V.O.C.: Less than 1.04 lbs / gallon (125g / liter)
- ⊗ Stocked in standard dark gray only
- ⊗ Surface resistivity:  $10^5$  -  $10^8$  ohms/square average

Product #4700-SS1: 1-gallon pail  
Product #4700-SS5: 5-gallon pail

## ACL 10R - PRIMER

### Use in the Preparation of Staticide® ESD Paint Coatings

ACL 10R Primer is non-toxic, clear, penetrating, and ready to use. It provides enduring protection against water penetration damage on a variety of surfaces, including non-sealed concrete.

- ⊗ Outstanding water repellency
- ⊗ Non-yellowing, ensures color stability
- ⊗ Resists dirt, acid rain and other air pollutants
- ⊗ Environmentally safe and 100% vapor permeable
- ⊗ Easy to apply and clean

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



#4700 SS

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## 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: 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: 1-gallon bottle / 4 gallons per case  
Product #4030-5: 5-gallon pail  
Product #4030-2: 54-gallon drum



#4020



## DUALMAT™ Static Dissipative Work Surface Material

Dualmat™ is a heavy-duty ESD-safe material for tables and workbenches that suits environments where static control and contamination are of concern. This two-ply industrial-grade elastomer is chemically cross-linked to conform to strict ESD and lead-free requirements. It is permanently dissipative and will not lose its electrical properties. Dualmat™ is as durable as rigid laminates and as comfortable and appealing as softer rubber or vinyl mats.

- ✧ Meets electrical and environmental industry standards; ESDA and RoHS compliant
- ✧ Rapid and safe drain allows static to decay in .05 seconds
- ✧ Low outgassing and V.O.C. make it ideal for controlled areas
- ✧ .080 inch (2mm) thickness lays flat and does not curl
- ✧ Durable surface withstands soldering iron contact and does not buckle from heat of equipment
- ✧ Embossed surface leaves no glare and adds gripping power so parts don't slip
- ✧ UV-protected color will not fade
- ✧ Clean with 6001 Mat & Tabletop Cleaner

### Electrical Properties @ 12% Relative Humidity:

Resistance between two points (RTT):	2.1 x 10 <sup>7</sup> ohms @10 volts per ANSI/ESD S4.1 1.3 x 10 <sup>7</sup> ohms @100 volts per ANSI/ESD S4.1
Resistance point to ground (RTG):	6.1 x 10 <sup>7</sup> ohms @10 volts per ANSI/ESD S4.1 5.3 x 10 <sup>7</sup> ohms @100 volts per ANSI/ESD S4.1
Volume resistivity:	4.6 x 10 <sup>7</sup> ohms-cm per ANSI/ESD STM 11.12

Available in:

- ✧ Four colors: #8085 light blue, #8185 green, #8285 royal blue, and #8385 dark gray
- ✧ 40 ft. rolls in 24", 30", 36", and 48" widths
- ✧ Pre-cut mats in various widths
- ✧ Custom sizes
- ✧ Custom corners

Pre-cut green mats are screened with the phrase: **Lead Free Work Environment**

Pre-cut mats have two 10mm snaps installed

Grounding hardware is available separately

### Grounding Hardware

8090 Mat Ground Cord: 10mm low profile 10' cord available in black or green

8091 Common Point Ground Cord: 10mm dual port 10' cord available in black or green

8092 Bench Mount: parking system for two wrist straps with 10' cord

# ESD WORKSTATION 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. It is non-streaking and non-flammable and effectively removes flux residues, oily finger marks, grease, nicotine, dirt, grime and inorganic contaminants without degrading the surface's anti-static properties.

- ⊗ Removes surface dirt on table tops, chair mats, and anti-static mats
- ⊗ Eliminates unsightly film or other residue that may build up on static-sensitive areas
- ⊗ Maintains original surface resistivity of anti-static mats and workbenches
- ⊗ Contains no alkali or ammonia
- ⊗ Designed for cleaning any production area in assembling, testing or handling sensitive electronic components

Product #6001: Quart bottle including trigger sprayer / 12 quarts per case

Product #6002: Gallon bottle / 4 gallons per case



#6002 / 6001

## 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.

Product #7001: 8 oz bottle / 24 bottles per case

Product #7002: Gallon bottle / 4 gallons per case



#7001

## 5075 - STATICIDE® ESD STATIC DISSIPATIVE WASTEBASKET

This static dissipative high-impact, non-black container is a high-density polyethylene that 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 clean rooms, manufacturing, inspection, quality control and research industries. The container may be used alone or with product #5076 Anti-Static Trash Can Liner.

- ⊗ Size: 13" diameter x 21.75" high (11 gallons)
- ⊗ No carbon or dyes
- ⊗ Linear high-density polyethylene
- ⊗ High impact resistance
- ⊗ No outgassing
- ⊗ Permanently dissipative
- ⊗ Safe to use in solvent areas
- ⊗ Clean room and environmentally safe



#5075

## ANTI-STATIC TRASH CAN LINER

- ⊗ Size: 24" x 34" (50 bags per case)
- ⊗ Black or pink tinted anti-static polyethylene 1.5 mil
- ⊗ Surface resistivity:  $<10^{12}$  ohms/square ASTM-D-257
- ⊗ Static decay rate: 5kv – 0 volts < 2 seconds per Mil-B-81705B Type II-Fed. Test Method 101C Method 4046

Product #5076: Pink liner / 50 bags per case

Product #5076B: Black liner / 50 bags per case

Additional Cleaning Products by Staticide®	
8040: Anti-Glare Screen Cleaner	4 oz bottle with fingertip sprayer / 12 per case
8044: Lint-Free Wipes	6" x 6" / 75 wipes per bag / 12 bags per case
8066: Notebook/Laptop Screen Cleaning Wipes	60 wipes per dispenser / 12 dispensers per case
8072: Anti-Static Foam Cleaner for Glass & Plastic	15 oz can / 12 cans per case
LF50: Heavy Duty Lint-Free Wipes	12" x 13" / 50 wipes per bag / 12 bags per case
MFC1: Microfiber Cloth	9" x 9" / 72 wipes per case

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ACL Ionizing Guns immediately neutralize static electricity on charged objects, making them complementary companions for electronics manufacturing facilities. The electronically neutral blast of air removes dust and contaminants for efficient cleaning and rapid static discharge. Suitable for class 100 clean rooms, each easy-to-use ionizing gun features static dissipative housing and a replaceable filter that limits particles to .01 microns. They are widely used in workstations, electronic assembly lines, and medical device manufacturing. The effective distance of the guns is up to 3.25 feet (1 meter).

ACL Ionizing Guns are reliable and virtually maintenance-free. Each unit has an ergonomic and lightweight design with a light touch control that makes the ionizing gun easy to operate and reduces user fatigue. Ionizing guns connect to standard power and compressed air sources. ACL offers a one year warranty on parts and labor.



#ACL 200

### ACL 200 - IONIZING GUN for Close Proximity

ACL 200 provides a precise air flow for blowing particulate contamination off of any surface; ideal for small parts and applications in which more accuracy is required.

The built-in piezo transformer allows for high efficiency and no EMI, making the unit safe to operate. An indication light will illuminate if the circuit is unsafe. Its high frequency output and low voltage corona discharge allow for a continuous stream of balanced air ions for neutralizing static charges. No auto adjustments are needed as this unit is self-balancing.

- ✧ Dimensions: 6.0" x 1.1" x 6.7"
- ✧ Ion balance: 0v ± 15v
- ✧ Filter: 0.01 micron replaceable filter
- ✧ Ozone: ≤ 0.003PPM
- ✧ Power input: 120v AC converts to DC 24v (68K Hz)
- ✧ Controls: On/off switch with trigger control
- ✧ Cables: Power cord and adapter cable equal 12'
- ✧ Weight (hand unit): 0.5 lb
- ✧ Input pressure range: 8 - 80 psi
- ✧ Discharge time: < 1.0 seconds from 1000v - 100v at 6", 2" and 1"

Model #200 Includes ionizing gun, 110v power adapter, cable, and calibration certificate.



#ACL 250

### ACL 250 - IONIZING GUN for Air Blasting

ACL 250 is ideal when a forceful blast of air is needed in light industrial areas, as it is effective from three feet away. Ergonomic gun includes pop-out filter design for easy filter replacement. Its lightweight design and touch trigger control reduce user fatigue.

- ✧ Dimensions: 5" handle, 8" shaft
- ✧ Ion balance: 0v ± 10v
- ✧ Filter: 0.01 micron replaceable filter
- ✧ Ozone: ≤ 0.003PPM
- ✧ Power input: 110v AC, 50/60Hz, .8A
- ✧ Controls: On/off switch on transformer with trigger and foot controls
- ✧ Cables: Power cord to transformer 5.5'; Foot pedal 6'
- ✧ Hose: flexible 7'
- ✧ Weight (hand unit): 0.5 lb
- ✧ Input pressure range: 50 - 100 psi with adjustable control in handle
- ✧ Discharge time: < 1.3 seconds from 1000v - 100v at 6"

Model #250 Includes ionizing gun, flexible hose, transformer, foot pedal, 110v power cable, and calibration certificate.

# WRIST STRAP & HEEL GROUNDING COMBO TESTERS



ACL's combination testers measure the electrical resistance of wrist straps, heel grounders, and footwear simultaneously and individually at a safe 19 volts. With one simple test, these easy-to-use units monitor employees before entering a protected area. Units are preset to meet EOS/ESD standard based on ANSI/ESD S20.20 specification, but can be adjusted to EU standard.

## Specifications:

Power supply:	9-volt battery or 12-volt DC adapter
Test voltage:	19 volts DC $\pm$ 1volt (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, 75M, 100M (1000M optional - internal adjustment required)
Environment:	32° - 100°F, 0% - 85% RH
Display:	Red and green LEDs, high dB buzzer
Wrist strap jacks:	Accommodates both U.S. standard and dual-wire (constant monitor) wrist straps

## ACL 780 - ECONOMY COMBO TESTER

Get the Performance of a State-of-the-Art Tester for a Cost-Effective Price

This straightforward pass/fail unit will test wrist straps and heel grounders simultaneously, eliminating the need to change feet or flip switches. With speed, ease and clarity, colored LED shows test results. No computer is necessary for pass/fail testing so you don't pay for features you don't need!

Model ACL 780	Includes tester, footplate, 9-volt battery, and power adapter
Model ACL 781	Includes tester, footplate, 9-volt battery, power adapter, and stand

## ACL 750 - COMBO TESTER INCLUDING SOFTWARE

So Simple, Yet So Sophisticated. Software Provides Documentation for ISO 9000

The ACL 750 can do what pass/fail testers cannot: give actual resistance readings and store data. When the software is used, test results are stored on a computer which allows managers to monitor and analyze test information and help manage the company's static control program. Results can be stored from each test for up to one year in a computer. Generated reports help guide internal policies and improve a company's productivity. Reporting will direct attention to problem work areas, employees who routinely fail, trends over time, and so much more.

### Software Features:

- ✦ Records actual resistance of wrist straps and heel grounders from 100 kilohms to 100 megohms, with an option to 1000 megohms
- ✦ Allow employee access by keyboard, mouse, barcode, magnetic stripe or proximity card
- ✦ Allow for new employees to be added easily the first time using the tester
- ✦ Generates reports for e-mailing and printing: Monthly Test Results, Entire Log, Daily Log, Employee Failure Exception, ESD Certification Expiration, Employee Attendance, Employee Vacation
- ✦ Automatically generates and e-mails reports to one or more recipients
- ✦ Accepts up to 30,000 employees
- ✦ Can limit reports to specific workgroups
- ✦ Can easily import report files into spreadsheet or database software
- ✦ Can import company's employee list/data from MS Access and Excel
- ✦ Can be password protected by supervisor
- ✦ Allows for employee information to be password protected
- ✦ Optional upgrade allows electronically locked doors to open or bells to ring when user wrist straps and heel grounders are in tolerance
- ✦ Able to prevent unauthorized entry without the proper ID card
- ✦ Compatible with Microsoft Windows 2000 operating systems and Windows XP Professional
- ✦ Can connect multiple test stations to LAN network or intranet
- ✦ Accepts and displays international dates and times
- ✦ Limits access to employees with expired certification

Model ACL 750	Includes tester, footplate, stand, 9-volt battery, power adapter and software
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#ACL 780



#ACL 750

(800) 782-8420

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www.aclstaticide.com

# RESISTANCE AND RESISTIVITY METERS

## POCKET-SIZED CONVENIENCE METERS

ACL's handheld meters give the advantages of megohmmeters, but at an economical price and compact size. Easy to use, these meters measure resistance to ground (RTG) and surface resistivity with a test range of  $10^3 - 10^{12}$  ohms. Use the built-in electrodes or optional weight kit to comply with industry standards. 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 departments for the testing of 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. Please contact ACL Inc. for complete specifications on individual meters.

- ✧ Measure resistance to ground (RTG)
- ✧ Measure resistance point to point (RTT)
- ✧ Test range of  $10^3 - 10^{12}$  ohms
- ✧ Automatically generate a 10v or 100v test voltage
- ✧ Test results shown in multi-colored LED display
- ✧ Accuracy:  $\pm 10\%$
- ✧ Include ground cord and zippered pouch



#ACL 380

## ACL 380 - SURFACE RESISTIVITY METER

The ACL 380 meter has a wider ranging LED display than typical pocket-sized units. Half decades between  $10^5 - 10^{10}$  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
- ✧ Weight: 3.6 oz
- ✧ 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 5-lb probes, and test leads.

## ACL 390 - RESISTANCE METER

The ACL 390 meter is a traditional unit with a simplified LED display where the test value is indicated by the decade within which it falls. Color segments show test results as conductive, dissipative, or insulative. This heavy-duty device features a screen-pressure test button, hard rails, and substantial feel.

- ✧ Three color LED display segments
- ✧ Internal rails: stainless steel bars
- ✧ Weight: 8.5 oz
- ✧ Size: 2.5" x 5.0" x 1.1"

### ACL 391 - Accessory Kit for ACL 390

External probes meet industry standards for testing resistance point to point (RTT) and volume resistance. Includes foam-lined carrying case, two 5-lb probes, and test leads.



#ACL 390



# RESISTANCE AND RESISTIVITY METERS



## MEGOHMMETER AUDIT KITS

ACL offers both an analog and a digital megohmmeter audit kit for measuring the resistance of packaging, smocks, anti-static mats, work surfaces and flooring. These user-friendly meters have the ability to test with external test probes in accordance with ESD Association standards S4.1 and S7.1, European Standards IEC 61340-4-1, 61940-2-3, and 61340-4-5. Kits include two 5-lb probes, test leads and a foam-lined carrying case.

### ACL 850 - ANALOG MEGOHMMETER

The portable Analog Megohmmeter is an economical, lightweight kit that is designed to measure surface resistance between two probes. Meter has three distinct scales that are color-coded for ease of use.

- ⊗ Measurement range for 10v resistance:  $10^3 - 10^7$  ohms
- ⊗ Measurement range for 100v resistance:  $10^4 - 10^{11}$  ohms
- ⊗ Includes metal plate for testing continuity of test leads and probes
- ⊗ Weight: 14 lbs
- ⊗ Kit size: 12.5" x 5.0" x 10.5"
- ⊗ Accuracy:  $\pm 3\%$  at 100v



#850

### ACL 800 - DIGITAL MEGOHMMETER

The Digital Megohmmeter is an easy-to-operate, compact, lightweight, portable meter designed to measure temperature, humidity and electrical resistance/resistivity according to industry standards. LCD shows actual test measurement for enhanced precision.

- ⊗ Measurement range for 10v resistance/resistivity:  $10^3 - 10^6$  ohms
- ⊗ Measurement range for 100v resistance/resistivity:  $10^4 - 10^{12}$  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
- ⊗ Kit size: 15" x 4" x 12"
- ⊗ Accuracy:  $10^3 - 10^8$  ohms/square =  $\pm 5\%$   
 $10^9 - 10^{12}$  ohms/square =  $\pm 9\%$



#800

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## ACL STATIC DETECTION METERS

All meters are warranted one year from date of purchase on parts and labor. Calibration is recommended every 12 months. Please contact ACL Inc. for complete specifications on individual meters.

### 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.



#ACL 300B

- ⊗ Most widely-used electrostatic locator
- ⊗ Designed for close and repetitive readings
- ⊗ Uses standard 9-volt battery; battery test feature
- ⊗ Low drift; repeatability  $\pm 1\%$
- ⊗ Unique "Quick Zero" function instantly re-zeroes the instrument and provides ground compensation for the user
- ⊗ Weight: 5.5 oz
- ⊗ Size:  $4 \frac{3}{8}'' \times 2 \frac{3}{8}'' \times 1 \frac{5}{16}''$
- ⊗ Accuracy:  $\pm 10\%$

### 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.



#ACL 350

- ⊗ 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
- ⊗ Weight: 5 oz
- ⊗ Size:  $4 \frac{1}{4}'' \times 2 \frac{3}{8}'' \times \frac{7}{8}''$
- ⊗ Accuracy:  $\pm 10\%$

### ACL 400 - IONIZED ENVIRONMENT ELECTROSTATIC LOCATOR

Measures static charges instantly from 0 - 30,000 volts in an ionized environment. Polarity is displayed. The wide range and ease of accurate repetitive measurements make this pocket-sized meter ideally suited for ESD control applications where ionizers are used.



#ACL 400

- ⊗ Stable operation allows output for continuous monitoring over several hours
- ⊗ Chopper stabilized electrode is not affected by ionizers
- ⊗ Weight: 6 oz
- ⊗ Size:  $4 \frac{3}{8}'' \times 2 \frac{5}{8}'' \times 1 \frac{3}{8}''$
- ⊗ Accuracy:  $\pm 10\%$

## **ISO 9001:2008**

ACL Inc.'s quality management system first achieved ISO certification in February of 1995. The stringent requirements of the International Standards Organization have provided ACL Inc. both an internal and external means of assessing our quality standards. Our strong commitment to quality allows us to continue providing effective solutions for static control problems around the world. Our current quality management system is ISO 9001:2008 certified (certificate 10002746).

## **QUALITY POLICY**

It is the policy of ACL Inc. to achieve the highest standards of product quality and customer service. In order to achieve this, the company has implemented a corporate wide quality system in accordance with ISO 9001:2008. The quality system communicates expectations, establishes controls and fosters a culture committed to excellence in everything we do with a focus on continual improvement. Through management leadership, internal communication, competence, awareness and training, we are committed to meeting the objectives of the company to achieve the highest standard of product quality and service.

## **MISSION**

ACL Inc.'s goal is to be the best supplier of quality products and services in our industry. We are committed to excellence and product innovation in each market we serve. Prompt and thorough response to our customers' needs is ACL Inc.'s hallmark. Quality is every ACL employee's responsibility.



# ACL Staticide®

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