



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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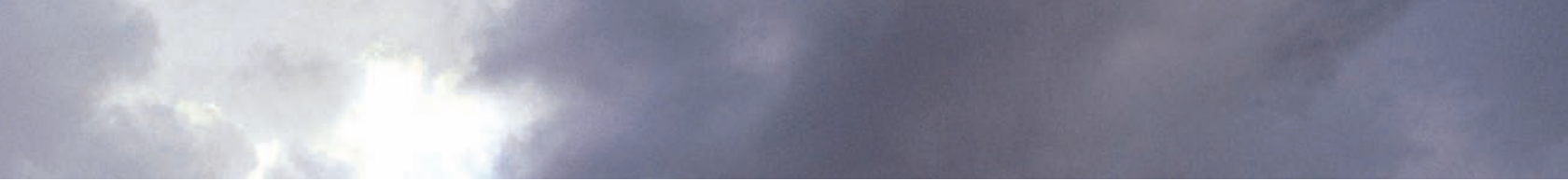




**ACL Staticide<sup>®</sup>**

**Specialists in Static Control**

**WHEN IT COMES TO STATIC PROTECTION,  
WE HAVE YOU COVERED.**



**S**tatic electricity, a natural phenomenon, is the primary cause of a myriad of problems affecting industry, business and personal life. These problems can be as simple as the shock from walking across a carpet; as costly as the destruction of sensitive electronic components or jamming of machinery and as dangerous as the ignition of combustible vapors, powders, or dust.

Although there are many methods of dealing with static, most of them have serious shortcomings, such as limited effectiveness, high cost or short life. ACL Staticide Inc., an ISO 9001:2000 certified company, provides a cost effective and timely solution for static related problems. ACL manufactures and markets static control products in addition to computer cleaning products that can be used in a broad range of industries including numerous office applications.

The fact is, ACL pioneered the formulation of the first topical anti-static solution: Staticide. Staticide remains the most effective and widely accepted anti-stat solution on the market today. Through the years, ACL has developed more innovative products to help eliminate static problems. Use any or all of these products to insure static control and safety in today's changing environments.



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Specialists in Static Control

# STATICIDE® TOPICAL ANTI STATS

PROVEN EFFECTIVE IN INDUSTRIAL, COMMERCIAL & INSTITUTIONAL FACILITIES

**#1 IN STATIC CONTROL PERFORMANCE**



**3000**

Staticide, an inexpensive, easy-to-use topical anti static solution, is a highly effective method for long-term static control. Our family of solutions are widely used in a broad range of industries, as well as in the office environment. Available in customized formulations to meet specific customer's needs, Staticide is easily applied on sensitive electronic equipment, walls, ceilings, floors, carpets, fixtures, work surfaces, tools and equipment, conveyor belts, clothing and other materials.

## 3000 – STATICIDE CONCENTRATE

CLOSEST THING YET TO "STATIC CONTROL INSURANCE."

**Staticide is the key ingredient in many ACL anti static solutions.** Diluted and mixed with water or various solvents\*, it eliminates a host of static control problems – especially in the electronics, medical, textile and plastics industries. Staticide Concentrate is available to save 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)

Available in your choice of:

- Product #3000Q - quart bottle
- Product #3000G - gallon bottle
- Product # 3000D - 50 gallon drum

* Staticide Concentrate can be diluted with...		
Tap water	Benzene	Dioxane
Deionized water	Freon	Carbon Tetrachloride
Isopropyl Alcohol	Acetone	Perchloroethylene

Product #3000 MC-Staticide is available for film processing applications.



**2005/2002**

## READY-TO-USE DILUTIONS

STATICIDE FAMILY FEATURES:

- Can be applied by spraying, wiping, dipping or by transfer roller coating, gravure coating or flexographic printing
- Meets MIL-B-81705 and NFPA-56A electrostatic decay criteria when tested in accordance with Federal Test Standard 101B, Method 4046
- Proven effective in relative humidity below 15%
- Non-staining, completely biodegradable and safe to use

## HEAVY DUTY STATICIDE FOR POROUS SURFACES

IDEAL FOR ELIMINATING STATIC PROBLEMS SUCH AS:

- Static electricity 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

One gallon covers approximately 2000 to 2500 square feet and will last from weeks to months, depending on the application.

Available in your choice of:

- Product #2005 – quart bottle/12 quarts per case
- Product #2002 – gallon bottle/4 gallons per case
- Product #2002-5 – 5 gallon pail
- Product # 2002-2 – 50 gallon drum



**2003/2001**

## GENERAL PURPOSE STATICIDE FOR NON-POROUS SURFACES

SOLVES STATIC PROBLEMS SUCH AS:

- The 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 their manufacture, shipping or receiving
- Data processing "glitches" ...memory loss, data errors, paper jams

One gallon covers approximately 2000 to 2500 square feet depending on the application.

Available in your choice of:

- Product #2003 – quart bottle/12 quarts per case
- Product #2001 – gallon bottle/4 gallons per case
- Product #2001-5 – 5 gallon pail
- Product # 2001-2 – 50 gallon drum

# STATICIDE TOPICAL ANTI-STAT FOR CLEANROOMS

## 5001 – STATICIDE CLEANROOM

SPECIALLY FORMULATED SOLUTION TO CONTROL ELECTROSTATIC DISCHARGE IN CLEANROOMS.

Staticide CleanRoom is a long-lasting and economical formula that is sodium and chloride free while eliminating static electricity on floors, chairs, CRT screens, work surfaces, glass, plastics and other electronically problematic materials.

- Filtered to less than 0.5 microns
- Bacteriostatic
- Non-toxic and non-corrosive
- No powdering/out-gassing
- Sodium and chloride free
- Suitable for industrial clean rooms class 100 and above
- Bottle is non-outgassing and anti-static
- Ink will not chip or flake



5001

## ANTI-STATIC WIPES

### SW-12 – STATICIDE WIPES & TOWELETTES

KEEP EQUIPMENT CLEAN & STATIC FREE!

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

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



SW-12

### IW-50 – INDUSTRIAL SIZE WIPES

FOR LARGER CLEANING APPLICATIONS!

Identical solution as SW-12, but this wipe is better suited for larger cleaning and static control applications. Ideal for use in industrial, electronic, automotive, plastics and technical environments.

50 individually foil wrapped wipes per dispenser/6 dispensers per case / 8" X 11"



IW-50

### SWC 80 – ANTI-STATIC STATICIDE CANISTER WIPES

ANTI-STATIC WIPES IN A BULK PACKAGE!

Ideal for use on keyboards and plastic surfaces. Protects sensitive equipment from costly static problems. For use on all materials that are not adversely affected by water or alcohol. Prevents dust attraction and is easy to use.

135 wipes per canister / 6 canisters per case / 6" X 6"



SWC 80

# STATIC DISSIPATIVE WORK SURFACE MATERIAL

## DUALMAT™

### ROHS COMPLIANT: PERFECT FOR LEAD FREE ENVIRONMENTS!

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

- Reversible laminate has two different electrical resistances (Back side is conductive, colored side is dissipative). Black side of mat can be used for fiber optics. Colored side is ideal for electronic manufacturing
- Meets industry standards for electrical and environmental: ESDA and RoHS compliant.
- Rapid and safe drain allows static to decay in .05 seconds
- Low out gassing and VOC makes it ideal for cleanrooms and other controlled areas.
- .080 inch (2mm) thickness will lay flat and will not curl
- Durable surface can withstand soldering iron contact and will not buckle from the heat of equipment
- Embossed surface leaves no glare and adds gripping power so parts don't slip
- Color is UV protected so they will not fade
- Clean with 6001 Mat & Tabletop Cleaner



### ELECTRICAL PROPERTIES @12% RELATIVE HUMIDITY FOR COLORED SURFACE:

Resistance between two points (RTT):  $2.1 \times 10^7$  ohms @10 volts per ANSI/ESDA S4.1  
 $1.3 \times 10^7$  ohms @100 volts per ANSI/ESDA S4.1

Resistance between point to ground (RTG):  $6.1 \times 10^7$  ohms @10 volts per ANSI/ESDA S4.1  
 $5.3 \times 10^7$  ohms @100 volts per ANSI/ESDA S4.1

Volume Resistivity:  $4.6 \times 10^7$  ohms - cm

<u>Rolls:</u>	<u>Light Blue</u>	<u>Royal Blue</u>	<u>Dark Gray</u>	<u>Green</u>
24" x 40'	8085BR2440	8285RBR2440	8385DGYR2440	8185GR2440
30" x 40'	8085BR3040	8285RBR3040	8385DGYR3040	8185GR3040
<u>Mats:</u>	<u>Light Blue</u>	<u>Royal Blue</u>	<u>Dark Gray</u>	<u>Green</u>
24" x 36"	8085BM2436	8285RBM2436	8385DGYM2436	8185GM2436
24" x 48"	8085BM2448	8285RBM2448	8385DGYM2448	8185GM2448
24" x 60"	8085BM2460	8285RBM2460	8385DGYM2460	8185GM2460
30" x 60"	8085BM3060	8285RBM3060	8385DGYM3060	8185GM3060
24" x 72"	8085BM2472	8285RBM2472	8385DGYM2472	8185GM2472
30" x 72"	8085BM3072	8285RBM3072	8385DGYM3072	8185GM3072

Available in your choice of: Royal Blue, Light Blue, Dark Gray and Green

- Available in precut mats in varying widths and 40' rolls.
- Custom sizes available
- Precut green mats are screened with the phrase: **Lead Free Work Environment.**
- Precut mats have two 10mm snaps installed
- Grounding hardware is separate

## ACL MAT & TABLE TOP CLEANER & WIPES



**6001**

### 6001 – MAT & TABLE TOP CLEANER

**TRULY AN IDEAL CLEANER THAT CAN BE APPLIED ON JUST ABOUT ANY SURFACE!**

This non-abrasive cleaner is ideal for general use on work stations, table tops and anti static mats. Leaves no film, is non-streaking and non-flammable. It effectively removes flux residues, oily finger marks, grease, nicotine, dirt, grime and inorganic contaminants without degreasing the surface's anti-static properties.

- Removes surface dirt on table tops, chair mats or 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

Available in your choice of:

Product #6001 – quart bottle/12 quarts per case

Product #6002 – gallon bottle/4 gallons per case



### MTT20 – MAT & TABLE TOP CLEANER WIPES

**THE PERFORMANCE OF 6001 MAT & TABLE TOP CLEANER IN THE CONVENIENCE OF A WIPE!**

Using the formula of our 6001 Mat & Tabletop Cleaner, each Mat & Table Top Cleaner Wipe is an anti-static, non-abrasive wipe for general use on work stations, table tops and anti-static mats.

- Convenient and easy to use
- 20 wipes per canister

**MTT20**

## HAND CARE PRODUCTS



**7001**

### 7001 – STATICIDE HI TECH HAND LOTION

**ESD SAFE! USE WITH WRIST STRAPS.**

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.

Available in:

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

Product #7002 – gallon bottle/4 gallons per case

### 7602 – HAND SAN PLUS

**DON'T JUST PROTECT YOUR HANDS, SHIELD THEM!**

Hand-San Plus is a new unique skin protectant that shields and protects your hands. When applied, this non-toxic and biodegradable liquid creates a natural, non-slippery barrier against germs, grease, resin, and more. It does not contain silicone so it will not contaminate. Its protective qualities eliminate the need for gloves in a wide variety of environments such as electronics, automotive, health and safety and anywhere where hands need to be defended.

Available in:

Product #7602 – 2oz bottle / 12 per case

Product #7608 – 8oz bottle / 24 bottles per case



**7608/7602**



## STATICIDE STATIC DISSIPATIVE FLOOR FINISH SYSTEMS

ACL's family of ESD Floor Finishes has a solution to your company's individual flooring needs. Each finish meets ESDA/ANSI 20.20 standard for static control and has a static decay time of less than 2 seconds when tested per EIA 541. All finishes are non-toxic, biodegradable, have low V.O.C. and are RoHS compliant. Our finishes do not require buffing and provide superior performance when compared to other brands.

**4600**



### 4600 – STATICIDE ULTRA

**HIGH QUALITY, HIGH PERFORMANCE, DECREASES STRIPPING CYCLES!**

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, effectiveness, and maximizes the stripping cycles.

- Long life saves money
- Provides superior abrasion performance
- Has an extended stripping cycle that can last for up to 24 months
- Is easily maintained and repaired with no buffing
- Dries faster and with higher gloss intensity than other ESD finishes
- UL listed for slip resistance

Coverage: 1500-2000 sq. ft. per gallon (approx)  
 Surface Resistivity:  $10^8 - 10^9$  ohms / square average  
 Substrate: vinyl, linoleum and ceramic tile  
 Strip Cycle: 12 – 24 months  
 Solids: 20% ± 5%

4600-1 (1 gallon bottle)  
 4600-5 (5 gallon pail)  
 4600-2 (54 gallon drum)

### 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 build-up. Easy to apply; perfect for production areas, warehousing, shipping, laboratories and electronic repair facilities.

- Competitively priced
- Easily maintained and repaired with no buffing
- Contains low volatile organic compounds (V.O.C.s)
- UL listed for slip resistance

Coverage: 1500-2000 sq. ft. per gallon (approx)  
 Surface Resistivity:  $10^8 - 10^9$  ohms / square average  
 Substrate: vinyl, linoleum and ceramic tile  
 Strip Cycle: 6 - 12 months  
 Solids: 20% ± 5%

40001 (1 gallon bottle)  
 40005 (5 gallon pail)  
 40002 (54 gallon drum)



**4000**

### 4200 – STATICIDE ZERO V.O.C.

**SPECIALLY FORMULATED FOR ENVIRONMENTALLY SENSITIVE AREAS!**

Beautify and control static without contaminating the air! Staticide Zero V.O.C. is zinc free and emits no harmful vapors during application. This is an ideal ESD floor finish for environments where contamination must be minimized.

- No buffing required
- No volatile organic compounds (V.O.C.s)
- No zinc

Coverage: 1500-2000 sq. ft. per gallon (approx)  
 Substrate: vinyl, linoleum and ceramic tile  
 Surface Resistivity:  $10^8 - 10^9$  ohms / square average  
 Strip Cycle: 6 - 12 months  
 Solids: 20% ± 5%

4200-1 (1 gallon bottle)  
 4200-5 (5 gallon pail)  
 4200-2 (54 gallon drum)

**4200**



## STATICIDE STATIC DISSIPATIVE FLOOR FINISH SYSTEMS

### 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 the shine and electrical properties of old ESD Tile.

- Long life
- Will adhere to ESD Tile
- Enhanced abrasion performance
- Easily maintained and repaired with no buffing

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

Substrate: concrete, epoxy, ESD epoxy and dissipative tile

Surface Resistivity:  $10^8 - 10^9$  ohms / square average

Strip Cycle: 12 - 18 months

Solids: 21% ± 5%

4800-1 (1 gallon bottle)

4800-5 (5 gallon pail)

4800-2 (54 gallon drum)



**4800**

## STATICIDE RESTORER CLEANER

### 4100 – STATICIDE RESTORER CLEANER

#### RESTORES GLOSS, 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 in the formula will help clean the floor but also break down electrical discharge, lower resistivity, and return your floors to safe specifications.

- Removes black heel marks
- No harmful chemicals like ammonia, phosphates or alkali.
- Non Abrasive
- Low odor
- Biodegradable

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

Use: For heavy duty cleaning of ACL static dissipative floor finishes and dissipative tile

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

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

Solids: 25%

4100-1 (1 gallon bottle)

4100-5 (5 gallon pail)

4100-2 (54 gallon drum)



**4100**

## STATICIDE FLOOR PREPARATION PRODUCTS

### 4010 - STATICIDE ANTI-STATIC FLOOR STRIPPER

Removes multiple coats of wax and synthetic floor finishes. Will not damage or dull flooring when used according to manufacturer's recommendations. Non-ammoniated, biodegradable, no harsh odors, non-streaking and low foaming. Effective in hard or soft water. Staticide Anti-Static Floor Stripper removes embedded dirt providing a completely clean and finish-ready surface by emulsifying dirt and residual particles of old wax or coating.

- No ammonia or phosphates
- Low VOC formula
- Zero tribogeneration
- Non-Toxic
- Biodegradable

Coverage: 5000 sq. ft. per gallon (approx)  
Dilution ratio: 1: 4 (1 part stripper to 4 parts water)

4010-1 (1 gallon bottle)  
4010-5 (5 gallon pail)  
4010-2 (54 gallon drum)



4010

### 4020 -STATICIDE NEUTRAL CLEANER

#### KEEP ESD PAINTED FLOORS CLEAN!

A highly concentrated anti-static cleaner for use in all facilities. Leaves no film, low foam level, constant detergency, non-streaking, safe for septic and sewage systems. Contains no phosphates or alkalis and will not degrade production environment anti-static properties. This non-abrasive cleaner is perfect product to use to clean ESD paint.

- Non Abrasive
- No Containments
- Neutral pH
- Neutral charge
- Use on Concrete, ESD Tile and Painted Floors

\*Dilution ratio- 1:128 (1 part cleaner to 128 parts water)

Coverage: 10,000 sq. ft. per diluted gallon (approx)

4020-1 (1 gallon bottle)  
4020-5 (5 gallon pail)  
4020-2 (54 gallon drum)



4020

### ACL 10R - PRIMER

#### USE IN PREPARATION OF STATICIDE DIAMOND PAINT

ACL 10R Primer is a clear, penetrating, ready-to-use non-toxic primer that provides long-lasting protection against damage associated with water penetration for a variety of horizontal and vertical surfaces, especially concrete. Should be used with non-sealed concrete floors only.

- Outstanding water repellency
- Non-yellowing, will assure color stability
- Resists dirt, acid rain and other air pollutants
- Environmentally safe and 100% vapor permeable
- Is easy to apply and clean

ACL 10R-1 (1 gallon bottle)  
ACL 10R-5 (5 gallon pail)  
ACL 10R-2 (54 gallon drum)

## STATICIDE ESD COATINGS



**4700 SS**

### **4700 SS – STATICIDE DIAMOND POLYURETHANE STATIC DISSIPATIVE FLOOR COATING (ESD PAINT)**

This high performance water based polyurethane coating dissipates static discharge on concrete and other unfinished hard floor surfaces. Test patch recommended.

- Outperforms leading ESD paints
- Provides 100% static control, even at low levels of humidity.
- Withstands alcohol, oils gasoline and most common electronic chemicals
- Formulated with low V.O.C.s – less than 1.04 lbs/gallon (125 g/liter)
- Resists yellowing, color fading and is biodegradable
- Stocked in standard dark gray color only, available in custom colors (call for pricing)

Coverage: 250-300 sq. ft. per gallon (approx.)

Substrate: concrete

Surface Resistivity:  $10^5 - 10^8$  ohms / square average

4700-SS1 (1 gallon bottle)

4700-SS5 (5 gallon pail)

### **448-7-250 – STATIC DISSIPATIVE PERMANENT COATING**

#### **STOP STATIC PERMANENTLY!**

This colorless paint can be applied to a variety of plastic surfaces to guard against static electricity. The unique formula allows static to dissipate across a surface even down to zero humidity. Safe to use in a variety of environments including clean rooms.

- Can be applied via roll coat, foam brush, or spray
- Can be applied to workstations, test equipment, computers and keyboards
- Instant permanent static protection ( $10^7 - 10^9$ ) even down to zero humidity
- Meets Federal Standard 209E and ISO standard 14644-1 for zero particulation in clean rooms  
However, product should be applied outside of clean room
- < 4% VOC
- Colorless
- meets the ESD Association's S11.11 test standards for electrostatic dissipation

Coverage: Approximately 425 sq. ft. per quart @ .10 (1 mil wet)

Substrate: Most plastics, glass, metals, wood, paper, laminates and many other surfaces

Surface Resistivity:  $10^7 - 10^9$  ohms / square average

448-7-250ACLQ (1 quart bottle)

448-7-250ACL (1 gallon bottle)



**448-7-250**

## 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**

### ACL 300B – PRECISION ELECTROSTATIC LOCATOR METER

MEASURES STATIC CHARGES INSTANTLY FROM 0 – 30,000 VOLTS, RELIABLY AND ECONOMICALLY IN A POCKET SIZE METER!

- Most widely used electrostatic locator
- Designed for close and repetitive readings
- Uses standard 9 volt battery with battery test feature
- Low drift, Repeatability  $\pm 1\%$
- Unique "Quick Zero" function which instantly re-zeroes the instrument and provides ground compensation for the user

Weight: 5.5 ounces  
 Size: 4 3/8" x 2 2/8" x 1 5/16"  
 Accuracy:  $\pm 10\%$

### ACL 350 – DIGITAL STATIC LOCATOR

- Non-contact meter that indicates electrostatic field voltage and polarity on charged surfaces
- Equipped with a Power On/Hold button and zero button
- Automatic shut off after 90 seconds
- Easy to read 3 -1/2 digit LCD display automatically updates three times per second
- Can measure voltages in many applications (packaging materials, production aids and raw materials)
- Range 0 – 80,000 volts

Weight: 5 ounces  
 Size: 4.2" x 2.4" x .9"  
 Accuracy:  $\pm 10\%$



**ACL 350**



**ACL 400**

### ACL 400 – IONIZED ENVIRONMENT ELECTROSTATIC LOCATOR

Measures static charges instantly from 0 – 30,000 volts in an ionized environment. The wide range and ease of accurate repetitive measurements make this pocket sized meter ideally suited for ESD control applications in today's ionized manufacturing environment.

- Stable operation – records output for continuous monitoring over several hours
- Chopper Stabilized – not affected by ionizers

Weight: 6 ounces  
 Size: 4 3/8" x 2 5/8" x 1 5/16"  
 Accuracy: Better than  $\pm 10\%$

### ACL 600 – STATI-CHECK METER

Detect how much charge a person is carrying and have it discharged instantly. The unit can be wall mounted outside the ESD protected area to avoid charged persons from unknowingly entering or it can be used by operators to periodically check themselves within a protected area. The meter must be grounded to produce an accurate measurement and to discharge. Touch to test, and watch the liquid crystal display indicate between 0-19,990 volts of static charge + or – polarity.

Weight: 2 pounds  
 Size: 14 1/2" x 9" x 3 1/3"  
 Accuracy: Better than  $\pm 5\%$



**ACL 600**

## ACL STATIC SURFACE RESISTIVITY AND RESISTANCE METERS



**ACL 385**

### ACL 385 – SURFACE RESISTIVITY METER

The first “Wide Range” hand held surface resistivity meter. This compact meter measures both surface resistivity and resistance to ground with a test range from 10 to 10 Ohms per square.

- CE approved
- Simple repeatable measurements of conductive, static dissipative and insulative surfaces by the ASTM standard D-257 method of parallel bar sensing

Weight: 6 ounces  
Size: 5" x 3" x 1"  
Accuracy: ± 5%

### ACL 390 – RESISTANCE METER

The ACL 390 meter gives the advantages of an expensive and cumbersome Megohmmeter at an economical price and a compact convenient size. Measures resistance to ground (RTG) and surface resistivity with a test range of  $10^3 - 10^{12}$  ohms. Use the built in electrodes or the optional weight kit to comply with industry standards. Meter automatically generates a 10v or 100v test voltage with results shown in multi-colored LED display. Includes ground cord and case.

**ACL 391 Accessory Kit** – External probes will meet industry standards for testing resistance point to point (RTT) and volume resistance. Includes carrying case (with foam lining) two 5lb probes, and test leads.

- Measures resistance to ground (RTG)
- Measures resistance point to point (RTT)
- Test range of  $10^3 - 10^{12}$  ohms
- Automatically generates a 10v or 100v test voltage
- Test results shown in multi-colored LED display
- Size
- +/- Accuracy: 10%
- Includes ground cord and case
- **Optional Weight Kit (ACL 391)** includes carrying case (with foam lining) two 5lb probes, and test leads
- Testing with ACL 391 weight kit allows compliance to industry standards



**ACL 390**

### ACL 800 – DIGITAL MEGOHMMETER

#### MEASURES TEMPERATURE, HUMIDITY & RESISTIVITY

The Megohmmeter is an easy to operate, compact lightweight, portable meter designed to measure temperature, humidity and electrical resistance/resistivity. Using both internal and external test probes, the meter will measure resistivity, resistance between two points, and resistance to ground according to ESDA/ANSI Standards, - S4.1, S7.1, S11.11, and European Standard CECC-EN 1000/15.

- Measures resistivity:  $10^3 - 10^{12}$  ohms/square
- Measures resistance:  $10^3 - 10^{12}$  ohms
- Measures relative humidity 10% to 90% RH
- Measures temperature: 32°F to 100°F (0°C – 37.7°C – optional)
- 10v/100v test voltage range
- High accuracy – all ranges
- Rechargeable battery capability
- Tests mats, floor finishes, paints, wrist straps, smocks, foot wear, bags and containers



**ACL 800**

Weight: 14 pounds  
Accuracy:  $10^3 - 10^8$  Ohms per square = ± 5%  
 $10^9 - 10^{12}$  Ohms per square = ± 9%  
Size: 15" x 12" x 4"

# ACL COMBINATION WRIST STRAP AND HEEL GRINDER TESTERS

## ACL 780 – ECOMONY COMBO TESTER FOR WRIST STRAPS AND HEEL GRINDERS

### GET THE PERFORMANCE OF A STATE OF THE ART TESTER FOR A COST-EFFECTIVE PRICE

Monitor employees before entering a protected area with one simple test. This straightforward pass and fail unit will test wrist straps and heel grounders simultaneously and consequently eliminate the need for changing feet or flipping switches. With speed, ease and clarity colored LED show test results. No computer is necessary for pass / fail testing so you don't pay for features you don't need!

- Automatic calibration
- Measures from 100 kilohms to 100 megohms with an option to 1000 megohms
- Conforms to ANSI / ESDA 20.20 standard and European standards
- Adjustable resistivity limits
- NIST certificate included
- AC or DC powered
- LED, low battery and buzzer displays
- Utilizes same footplate and stand as ACL 750 below

Model ACL 780 includes Tester, Footplate, 9 volt battery, & power adapter

Model ACL 781 includes Tester, Footplate, 9 volt battery, power adapter & stand.



**ACL 780**

## ACL 750 – COMBO TESTER FOR WRIST STRAPS AND HEEL GRINDERS INCLUDING SOFTWARE

### SO SIMPLE, YET SO SOPHISTICATED. SOFTWARE PROVIDES DOCUMENTATION FOR ISO 9000

Easy-to-use meter measures electrical resistance of wrist straps and heel grounders simultaneously and individually. 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 you to monitor and analyze test information and help manage your company's static control program. Results can be stored from each test for up to one year in your computer. Create reports to help guide your internal policies and improve your company's productivity. Reporting will direct your attention to problem work areas, employees who routinely fail, trends over time, and so much more.

#### METER FEATURES:

- Test both wrist straps and heel grounders simultaneously and individually at a safe 19 volts
- Accommodates both U.S. standard and dual wire (constant monitor) wrist straps
- Reads actual resistance of wrist straps and heel grounders from 500 kilohms up to 100 meg ohms, with an option up to 1000 meg ohms. Conforms to US ANSI/ESD S20.20 standard and to European CE standard
- Alarm points may be programmed to any value for any employee or default limits (ESDA recommended limits can automatically be used)
- Allow employee access by keyboard, mouse, barcode, mag stripe or proximity card
- Allows for new employees to be added easily the first time they use the tester

#### SPECIFICATIONS:

Power Supply 9 volt battery or 12 volt DC adapter

Test Voltage: 19volts DC ± (open circuit)

Resistance range: Wrist Strap- Low: 500k, 750k  
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) Internally selectable

Features: Dual path foot plate, toggle switch selector, RS-232 computer interface, NIST/CECC limits, micro-processor controlled.  
Made in U.S.A. High accuracy.

Environment: 32° - 100°F: 0% - 85% RH

Display: Red and green LEDs, high dB buzzer, computer monitor (optional)



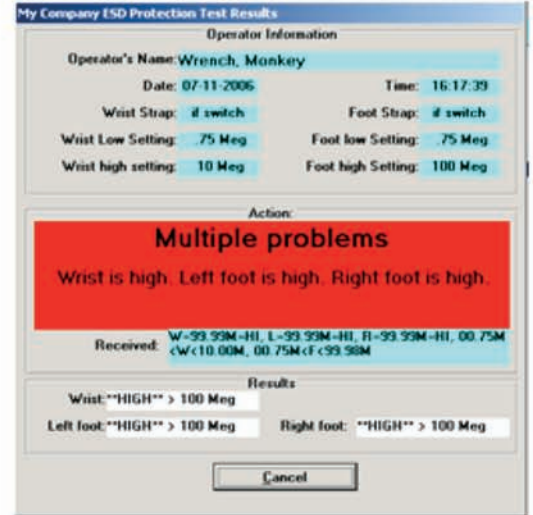
**ACL 750**  
Shown with ACL 755  
Barcode Reader

# ACL COMBINATION WRIST STRAP AND HEEL GRINDER TESTERS

## ACL 750 - SOFTWARE FEATURES:

- 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 data base software
- Can import companies employee list/data from MS Access and Excel
- Can be password protected by supervisor
- Allows for employee information to be password protected
- Can be upgraded to allow electronically locked doors to open or warning alarms to sound when user wrist straps and heel grounders are in tolerance
- Is able to prevent unauthorized entry without the proper ID card
- Is compatible with Microsoft Win3.1, 95, 98, ME, WinNT, Windows 2000 operating systems and Windows XP Professional
- Can connect multiple test stations to LAN network
- 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 & software



LastName	FirstName	ID#	Date	Time	WristStat	LeftStat	RightStat	WristLegs	LeftLegs	RightLegs
Doe, Jane		CIA-123	09-04-2000	23:42:35	Wk	Lk	Rk			
Use, Wrist		A15-126	09-04-2000	23:43:02	Wk	L	R			
ARRAnyone, Else		???	12-06-2000	11:03:23	Wk	Lk	Rk			
ARRAnyone, Else		???	09-09-2002	20:00:09	Wk	Lk	Rk			
Defaulto, Joe		B27-543	06-27-2006	08:48:39	ConFail					
Defaulto, Joe		B27-543	06-27-2006	08:48:57	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:49:02	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:49:59	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:50:27	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:51:11	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:51:50	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:52:22	Wk	Lok	Rok			
Defaulto, Joe		B27-543	06-27-2006	08:54:00	Wk	Lok	Rok			
Wrench, Monkey		191-2345	07-07-2006	14:28:44	Wk	Llo	Rok			
Wrench, Monkey		191-2345	07-07-2006	14:28:47	Wk	Llo	Rok			
Wrench, Monkey		191-2345	07-07-2006	14:28:51	Wk	Llo	Rok			

LastName	FirstName	ID#	Date	Time	WristStat	LeftStat	RightStat	WristLegs	LeftLegs	RightLegs
Wrench, Monkey		191-2345	7/12/2006	13:20:50	Wk	Lk	Rk	100.00	100.00	100.00
Wrench, Monkey		191-2345	7/12/2006	13:43:30	Wk	Lk	Rk	100.00	100.00	100.00
Wrench, Monkey		191-2345	7/12/2006	13:43:53	Wk	Lok	Rok	100.00	02.13	03.06
Wrench, Monkey		191-2345	7/12/2006	13:45:42	Wk	Lok	Rok	02.37	02.50	03.40
Quke, Artie		CIA-1234	7/12/2006	13:48:36	Wk	Lok	Rok	01.04	02.08	02.86
Cornsey, Jenn		123-7708	7/12/2006	13:50:05	Wk	L	R	02.26	02.71	02.74
Defaulto, Joe		A27-543	7/12/2006	13:50:12	Wk	Lok	Rok	01.90	02.12	03.00
Doe, Jane		CIA-134	7/12/2006	13:50:19	Wk	Lok	Rok	02.10	01.91	02.86
Doe, John		A36-135	7/12/2006	13:50:23	Wk	Lok	Rok	02.61	02.32	03.10
Use, Foot		026-127	7/12/2006	13:50:27	W	Lok	Rok		01.79	02.47
Use, Switch		125-250	7/12/2006	13:50:31	Wk	Lok	Rok	100.00	01.91	02.47
Use, Wrist		A35-126	7/12/2006	13:50:35	Wk	L	R	01.85	02.02	02.43
Wrench, Monkey		191-2345	7/12/2006	13:50:39	Wk	Lok	Rok	02.00	02.09	02.96
Lee, GJ		CIA-196MDC9012350	7/12/2006	13:50:44	Wk	Lok	Rok	02.10	02.00	02.80
Parok, Perfecto		CIA-41	7/12/2006	13:50:49	Wk	Lok	Rok	02.00	01.81	02.42
Quke, Artie		CIA-1234	7/12/2006	13:50:51	Wk	Lok	Rok	03.59	01.86	02.49
Rollins, Henry		CIA-03595	7/12/2006	13:50:55	Wk	Lok	Rok	06.71	02.51	03.60



## STATICIDE CLEANING WIPES



**CCW 135**

### **CCW 135 – CLEAN & CLEAR WIPES**

#### **THE ULTIMATE LENS AND SCREEN WIPE**

This pre-moistened wipe is ideal for cleaning most types of glass and plastic lenses. Used on goggles, cameras, lenses and magnifiers. It will also help fight fog build-up. 135 wipes per canister.

*135 wipes per canister / 12 canisters per case / 6" x 7.5"*



**TWC 135**

### **TWC 135 – DISINFECTING TELEPHONE CLEANING WIPES**

#### **EPA REGISTERED**

An effective way to clean and disinfect hard non-porous surfaces. Cleans and disinfects telephones, dictating equipment, earphones and other telecommunications equipment. Available in a pop-up canister.

*135 wipes per canister / 12 canisters per case / 6" x 7.5"*



**TW-12**

### **TW-12 – STATICIDE TELEPHONE CLEANING WIPES**

Antiseptic telephone wipes are perfect for cleaning all non porous surfaces of the telephone. Bacteriostatic properties instantly sanitize surfaces, helping to prevent the spread of germs and bacteria. Ideal for home, office or travel.

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

### **IR-12 – ACL HAND INK REMOVER WIPES**

#### **CLEAN & MOISTURIZE HANDS SIMULTANEOUSLY!**

- Removes ink, toner, stains and smudges from hands without soap and water.
- Quick and convenient clean-up
- Contains lanolin so it leaves skin soft and smooth
- No greasy residue

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



**IR-12**

### **LF-50 – HEAVY DUTY LINT FREE WIPES**

#### **EXCELLENT ABSORPTION WITH UNBELIEVABLE STRENGTH!**

Ideal for the application of Heavy Duty & General Purpose Staticide as well as 6001 Mat & TableTop Cleaner. These low-lint polyester material wipes do not contain dyes or binders. Highly absorbent with soft strength, this low particle count wipe holds liquid without breaking down, eliminating lint contamination.

*50 wipes per bag / 12 bags per case / 12" X 13"*

## STATICIDE CLEANING & MAINTENANCE PRODUCTS FOR COMPUTERS & OFFICE EQUIPMENT & INDUSTRIAL APPLICATIONS



**8000**

### 8000 – ANTISTATIC EQUIPMENT CLEANING WIPES

**TOUGH ON STAINS & EASILY ACCESSIBLE!**

Keep your equipment looking new with pre-moistened lint-free wipes in a handy pop-up dispenser. Easily removes dust, dirt, grimy oils & ribbon ink from external housings of all metal and plastic equipment. Also ideal for use on work stations, file cabinets, computer covers, white boards, parts and tools. Do not use on glass or fine woods.

*40 wipes per pop-up pouch pack with unique reclosable top / 12 pouch packs per case / 7" X 7"*

### 8020 – PREMOISTENED 5" SWABS

Convenient and easy to use for cleaning keyboard keys, tape heads, electronic parts and all office and production equipment.

*24 individually foil wrapped swabs per bag/12 bags per case*



**8020**



### 8008 – STATIC NEUTRALIZING LINT FREE CLOTH

**PERFECT FOR CLEANING COMPUTER HOUSING AND INDUSTRIAL SURFACES!**

A specially treated dry cloth made of a soft, lint-free polyester material that picks up dust and neutralizes a static charge on all surfaces.

*3 individually bagged cloths per pack / 24 packs per case / 11" x 13"*



**8008**



**8040**

### 8044 – LINT FREE WIPES

Strong and absorbent, these wipes can be used on any surface. Ideal applicator for 8040 screen cleaner.

*75 wipes per bag / 12 bags per case / 6" x 6"*

### 8040 – ANTI-GLARE SCREEN CLEANER

Cleans any glass including anti-glare screens. No abrasives, perfect for computer screens and TV screens.

*With finger tip sprayer / 4 oz bottle / 12 bottles per case*

### 8066 – NOTEBOOK/LAPTOP SCREEN CLEANING WIPES

Removes fingerprints, ink marks, nicotine, and other soils safely from the screen and housing of all Notebook/Laptop computers and plasma screens.

*60 wipes per dispenser / 12 dispensers per case*



**8066**



**8072**

### 8072 – ANTI-STATIC FOAM CLEANER FOR GLASS & PLASTIC

Specially formulated for general external cleaning of glass and plastic materials. Leaves no film while keeping equipment clean and static free.

*15 oz. can / 12 cans per case*

### ADDITIONAL CLEANING PRODUCTS by STATICIDE

- #8007 – Economy Head Cleaning Kit for 3 1/2" Disk Drive
- #8010 – Label Remover Kit
- #8012 – Computer Mouse Cleaning Kit
- #8015/ #8015-4 PK – Fax Machine Cleaning Sheet
- #8016 – Laser Printer Cleaning Kit
- #8018 – Keyboard Cleaning Kit
- #8022/#8023 – Laser Printer Cleaning Paper
- #8025 – Inkjet Cartridge Cleaning Kit
- #8042 – Computer Monitor Cleaning Kit
- #8046 – Anti-Static Wide Head Swab
- #8048 – Anti-Static Narrow Head Swab
- #8058 – CD Rom Lens Cleaner
- #8062 – CD Scratch Repair Kit

## STATICIDE ESD WORKSTATION PRODUCTS

### 5075 – STATICIDE ESD STATIC DISSIPATIVE WASTEBASKET

This static dissipative high-impact, non-black container is a high-density polyethylene that does not contain carbon, dyes, or additives making it ideal for all applications demanding cleanliness. The trash barrel will not tribogenerate and will not dissipate static electricity.

The wastebasket is ideal for cleanrooms, manufacturing, inspection, quality control and research industries.

The container may be used alone or with our new product #5076 Anti-Static Trash Can Liner.

- Size: 16" diameter x 22" high (11 gallons)
- No carbon or dyes
- Linear high density polyethylene
- Will not tribogenerate
- High impact resistance
- Will not outgas
- Convenient for office or laboratory
- Permanently dissipative
- Safe to use in solvent areas
- Cleanroom and environmentally safe



5075

### 5076 – ANTI-STATIC TRASH CAN LINER

Ideal for static sensitive areas where electrostatic contamination is a problem.

- Size: 24" x 34" (50 bags per case)
- Black or pink tinted antistatic polyethylene 1.5 ml
- Surface resistivity: <10 Ohms/sq. ASTM-D-257
- Static decay rate: 5 KV-0 Volts < 2 seconds\*

\* per Mil-B-81705B Type II-Fed. Test Method 101C Method 4046



2200

### 2200 – ANTI-STATIC STARTER KIT

**THIS COMPACT KIT CONTAINS A SOLUTION FOR ALL YOUR STATIC PROBLEMS.**

Keep this handy near your workstation for easy accessibility for ESD control needs.

#### CONTENTS:

- 1 – 4 oz. General Purpose Staticide - for use on non-porous surfaces
- 1 – 4 oz. Heavy Duty Staticide - for use on porous surfaces such as carpets and fabrics
- 1 – 2 oz. Mat and Table Top Cleaner - cleans and restores ESD mats and workstations
- 1 – 1 oz. ESD Hand Lotion - non-acidic improves wrist strap performance
- 5 – Anti-Static Swabs (large) - conductive handle, for use on sensitive electronics
- 5 – Anti-Static Swabs (small) - conductive handle, for use on sensitive electronics
- 1 – Pre-moistened Disposable Cleaning Swab - for use on keyboards and other small areas
- 6 – Pre-moistened Telephone Cleaning Wipes - cleans and disinfects telephones, earphones
- 6 – Pre-moistened Ink Remover Wipes - removes ink and grease from hands
- 6 – Pre-moistened Staticide Anti-static wipes - removes static from CRT screens
- 5 – Lint Free Wipes - for use with anti-static cleaning solutions

MSDS available on all products from our website or by request.  
[www.aclstaticide.com](http://www.aclstaticide.com) • [info@aclstaticide.com](mailto:info@aclstaticide.com) • 800-782-8420



## **ISO 9001:2000 CERTIFICATION PROGRAM**

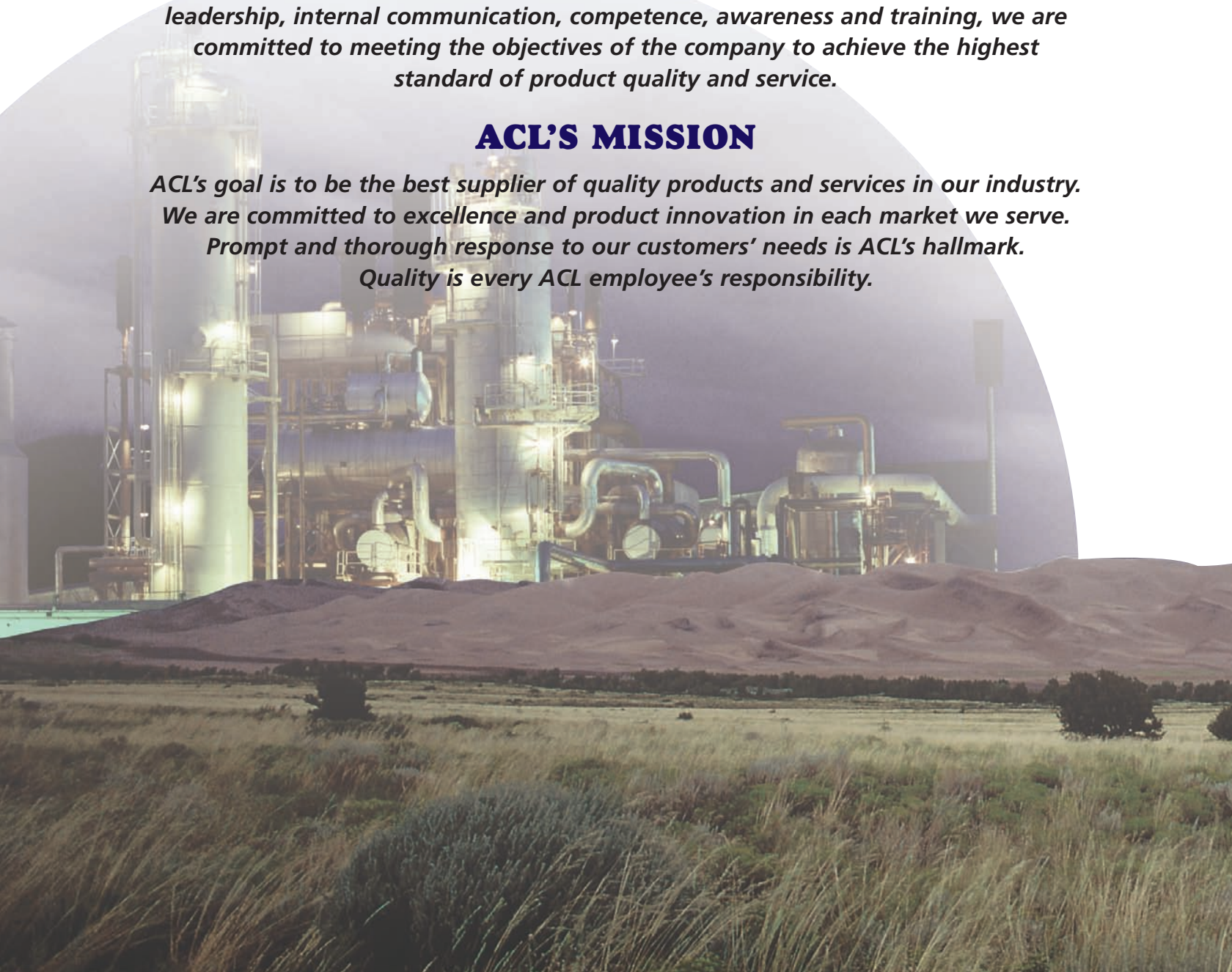
*ACL Inc. achieved ISO certification (Certificate #A3656) in February of 1995. The stringent requirements of the International Standards Organization has provided ACL Inc. both an internal and external means of assessing its quality standards. ACL is continually striving to be responsive to ever-changing static control problems around the world.*

## **QUALITY POLICY**

*It is the policy of ACL Staticide 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 9001:2000. 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.*

## **ACL'S MISSION**

*ACL'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's hallmark. Quality is every ACL employee's responsibility.*



  
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