STATIC CONTROL

Presented by:
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LEGGE

System of Static Control Products

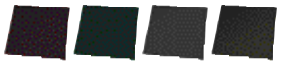
CONTENTS

CONDUCTIVE AND STATIC DISSIPATIVE COATINGS

All conductive and static dissipative coatings are manufactured by the Walter G. LEGGE Co., Inc. They are water based and are within VOC limits.

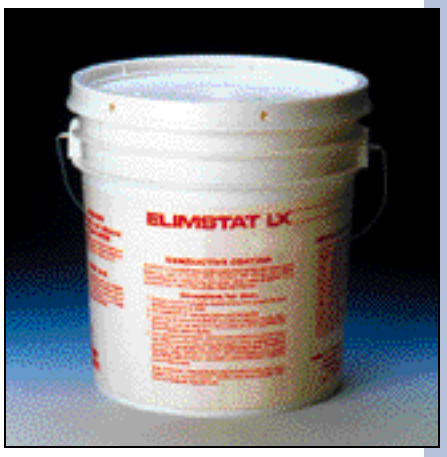
ELIMSTAT® LX – Conductive Coating

ITEM #K4093



Available in Maroon, Green, Grey, Black

ELIMSTAT LX is a water based conductive coating, manufactured with high quality acrylic latex.



When applied to non–conductive surfaces, such as floors, bench tops, tote boxes, etc., ELIMSTAT LX provides conductivity to dissipate static charges. ELIMSTAT LX, along with appropriate LEGGE personnel body grounding devices, will help you provide a static free environment.

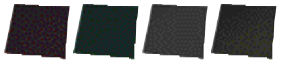
ELIMSTAT LX is extremely cost effective. Cost per square foot is only a small fraction of the cost of conductive vinyl flooring and epoxy. ELIMSTAT LX is easy to apply, maintain and repair. Provides excellent wearability and detergent resistance.

See maintenance instructions on page 5.

All conductive and static dissipative coatings are available in 1 gallon and 5 gallon containers.

ELIMSTAT® LXU – Conductive Coating

ITEM #K4093



Available in Maroon, Green, Grey, Black

A water based acrylic, conductive coating reinforced with water-borne urethane.

ELIMSTAT LXU is specifically designed for high performance use where hardness, chemical and abrasion resistance as well as exceptional adhesion properties are desired. Has excellent UV resistance and may be used as an exterior coating. Good resistance to most chemicals and solvents, with permanent conductivity: 25,000 - 1,000,000 ohms (NFPA Code #99). ELIMSTAT LXU is an excellent choice for difficult applications and offers a high-quality conductive coating for areas where additional adhesion and durability are required. May be rolled, brushed or sprayed. Two 1.5 mil dry film coats recommended for extended wear. Dry to touch in 45 minutes, recoat in 5-6 hours (24 hours if possible).

EQUIPMENT RECOMMENDATION

CONVENTIONAL SPRAY
DeVilbiss MBC-510 Spray Gun "E", fluid tip and needle and #704, 765 or 78 Air Cap

AIRLESS SPRAY
DeVilbiss JCA-5026 spray gun and a spray cap or suitable orifice diameter 0.020-0.025

MODEL LA-1 FLOOR CONDUCTIVITY TEST
Walter G. LEGGE Co. Used in the testing of floors to comply with NFPA Code #99

LEGGE PERSONNEL GROUNDING DEVICES
Full line of wristats, legstats, conductive shoes, boots and static dissipative shoes

SPECIFICATIONS

ELIMSTAT® LX

Coating Type:	Water-based acrylic coating
Coverage:	300- 400 sq. ft. per gal.
Conductivity:	Meets NFPA Code #99 (#56) Specification of conductive flooring, MIL SPEC DOD-HDBK-263. Meets and supercedes MIL-B81705C for static decay
Resistance:	25,000 - 1,000,000 ohms. Conductivity may be adjusted to customer specifications
Colors:	Maroon, green, grey, black
Vehicle Type:	Pure water-borne acrylic resin
Pigment Type:	Lead free, iron oxide, titanium dioxide and extenders
Flash Point:	None
Dry Film Thickness and Theoretical Coverage:	Up to 400 sq. ft. per gallon at 1.5 mils dry and film thickness
Viscosity:	1000 - 1500 cps
Avg. Drying Time:	@75° F and 50% R.H.: 1 hour to the touch first coat, re-coat after 3- 4 hours
Theoretical Solids By Weight:	33- 36%
pH:	8.3
Weight:	8.8 lbs. per gal.

ELIMSTAT® LXU

Coating Type:	Water-based acrylic-urethane reinforced coating
Coverage:	300 - 400 sq. ft. per gal.
Conductivity:	Meets NFPA Code #99 (#56) Specification of conductive flooring, MIL SPEC DOD-HDBK-263. Meets and supercedes MIL-B81705C for static decay
Resistance:	25,000 - 1,000,000 ohms
Colors:	Maroon, green, grey, black
Vehicle Type:	water-borne acrylic resin reinforced with urethane
Pigment Type:	Lead free,iron oxide,titanium dioxide and extenders
Flash Point:	None
Dry Film Thickness:	1.5 mils
Viscosity:	1200 - 1500 CPS
Solids:	35 - 40%
pH	8.3
Weight:	8.8 lbs. per gal.

Related Items in Catalog

Model #262 Portable Surface Resistivity, or equivalent Meter used in the testing of static dissipative surfaces.

LEGGE Personnel Grounding Devices: Full line of wristats, legstats, conductive shoes, boots, and static dissipative shoes.

CONDUCTIVE AND STATIC DISSIPATIVE COATINGS

ELIMSTAT® SD

Coating Type:	Water-based acrylic coating
Coverage:	300 - 450 sq. ft. per gal.
Conductivity:	Static dissipative coating for the electronics industry requirements. Meets and exceeds MIL-B81705B for static decay
Resistance:	10^7 - 10^9 ohms/sq. in.
Colors:	White, green, grey, black, red, blue, tan, yellow
Vehicle Type:	Pure water-borne acrylic resin
Pigment Type:	Lead free, iron oxide, titanium dioxide and extenders
Flash Point:	None
Dry Film Thickness:	1.5 mils per coat
Theoretical Solids by Weight:	33- 36%
Viscosity:	1000 - 1500 CPS
Avg. Drying Time:	@75° F and 50% R.H.: 1 hr to the touch first coat, re-coat after 3 - 4 hours
pH:	8.3
Weight:	8.9 lbs. per gal.

ELIMSTAT® SDSC 549411

Composition:	Pure acrylic latex
Finish:	Flat
Avg. Drying Time:	45 min. to touch @ 75° F, 50% relative humidity
Reducer:	1/2 pint water/gal.
Application Conditions:	up to 85% RH, 50 - 100° F
Substrate (surface) Temp.:	above 500 F
Total Solids:	58 - 63% (% non-volatile by weight)
Weight per Gallon:	12.4 - 13.0 lbs
pH:	8.5 - 9.0
Viscosity:	5750 - 6050 CPS @ 25° C, Brookfield Viscometer with spindel #3 at 20 rpm
Storage Temp. (indoors):	50 - 80° F
Shelf Life:	6 months at recommended storage conditions
Surface Resistance:	10^8 ohms/in^2 - one coat 10^7 ohms/in^2 - two coats

ELIMSTAT® SS-SD
ELIMSTAT® SS-CD

Type:	Urethane-based stainless steel coating
Viscosity:	300 - 400 cps Brookfield #3 Spindle @ 50 rpm
Coverage:	300 sq. ft. per gal.
Total Solids:	33 - 36%
pH:	9.00
Weight per Gallon:	8.62
Vehicle Type:	Water-borne urethane and stainless steel
Flash point F:	No flash Point
Resistance:	SS-SD: 10^7 - 10^9 ohms SS-CD: 500,000 ohms

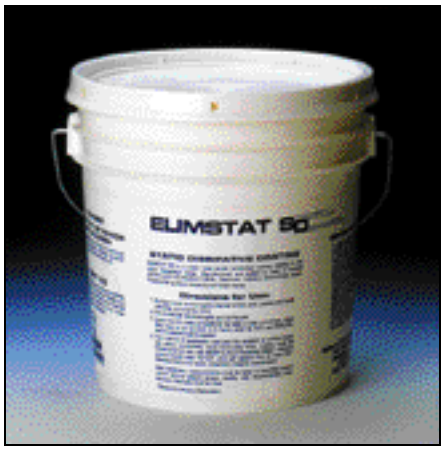
These coatings are formulated with a new development in conductive and static dissipative coatings with permanent conductivity:

- **All formulations based on highly advanced coating technology of metalized components**
- **Coatings do not contain carbon black**
- **Permanent conductivity; insensitive to humidity**
- **The readings are easily controlled and formulated within the desired range.**

ELIMSTAT® SD – Static Dissipative Coating

ITEM #K4096 **Standard colors: Black, White, Blue, Grey, Green**

ELIMSTAT SD is a water-based static dissipative coating, manufactured with high quality acrylic latex. ELIMSTAT SD provides permanent static dissipation to a variety of surfaces and areas. The applications are limitless, but some include — floors, walls, ceilings, printed circuit boards, containers, plastic surfaces, etc. — anywhere static dissipation is desired. When used with LEGGE grounding devices, ELIMSTAT SD provides a static free work environment. The coating may be applied with roller, brush or sprayer. Surfaces should be clean and dry. Two coats minimum are required, 3 - 4 hours is the normal drying time between coats.



See maintenance instructions on page 5.

ELIMSTAT® SDSC 549411 – Static Dissipative Coating

ITEM #K4096-SDSC549411 **Available in White**

ELIMSTAT SDSC 549411 is a static dissipative, **super reflective, white,** water-based acrylic coating designed for high performance uses in accordance with aerospace specifications. The product is used to coat Space Launch Vehicles and motors to reduce static electricity build up. LEGGE has worked closely with the aerospace industry to develop and test this coating and it is specified and used extensively by contractors and sub-contractors on rocket motors and assemblies in the aerospace industry.

ELIMSTAT® SS-SD – Static Dissipative Coating NEW

ITEM #K4097-SS-SD **Available in Stainless Steel Grey**

ELIMSTAT® SS-CD – Conductive Coating NEW

ITEM #K4097-SS-CD **Available in Stainless Steel Grey**

Water based urethane, Stainless Steel coating formulated in both conductive and static dissipative ranges.

ELIMSTAT® SS-SD and SS-CD are the latest additions to the extensive line of static dissipative and conductive coatings manufactured by the Walter G. LEGGE Company, Inc. Utilizing new technology, both coatings were researched and developed by LEGGE SYSTEMS to be the most durable, water based static dissipative and conductive coatings. The coatings feature high reflectance and permanent conductivity to meet both electronic as well as DOD specifications. The best properties associated with Stainless Steel are now available in an easy to apply, water based coating system. ELIMSTAT SS-SD and SS-CD are recommended for all surfaces where high durability and resistance to common chemicals is desired. May also be used for many difficult applications and offers a high quality conductive coating for areas where adhesion is a problem. May be rolled, brushed or sprayed.

ELIMSTAT® UXM CCP

ITEM #K4095

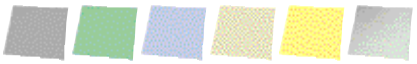
Available in Lt. Grey

A high solids, water-borne urethane conductive coating with permanent conductivity

ELIMSTAT UXM CCP, conductive coating, is designed for high performance uses where hardness, chemical and abrasion resistance as well as exceptional adhesion properties are desired. ELIMSTAT UXM CCP has excellent UV resistance and can be used as an exterior coating. Outstanding resistance to chemicals and solvents, with permanent conductivity. ELIMSTAT UXM CCP may be used for many difficult applications and offers a high quality conductive coating for areas where adhesion is a problem. May be rolled, brushed or sprayed. Excellent recoatability, clean surface thoroughly with LEGCLEAN, allow to dry thoroughly and reapply ELIMSTAT UXM CCP.

ELIMSTAT® UXM-60P

ITEM #K4091



Available in Grey, Green, Blue, Tan, Yellow, White

A high solids, water-borne urethane static dissipative coating with permanent conductivity

ELIMSTAT UXM-60P, static dissipative coating, is designed for high performance uses where hardness, chemical and abrasion resistance as well as exceptional adhesion properties are desired. ELIMSTAT UXM-60P has excellent UV resistance and can be used as an exterior coating. Outstanding resistance to chemicals and solvents, with permanent conductivity (10^7 - 10^9 Ohms per sq. in.). ELIMSTAT UXM-60P may be used for many difficult applications and offers a high quality conductive coating for areas where adhesion is a problem. May be rolled, brushed or sprayed. Excellent recoatability, clean surface thoroughly with LEGCLEAN, allow to dry thoroughly and reapply ELIMSTAT UXM-60P.

ELIMSTAT® UXM-600

ITEM #K4092

Available in Clear, Black

A water-borne urethane conductive coating with permanent conductivity

ELIMSTAT UXM-600, is specifically designed for high performance uses. Designed for use where hardness, chemical and abrasion resistance as well as exceptional adhesion properties are desired. ELIMSTAT UXM-600 has excellent UV resistance and can be used as an exterior coating. Outstanding resistance to chemicals and solvents, with permanent conductivity — adjustable to your specifications (10^5 ohms per sq. in. is the standard resistance). ELIMSTAT UXM-600 is an excellent choice for G-10 and many difficult applications and offers a high quality conductive coating for areas where adhesion is a problem. May be rolled, brushed or sprayed. May be baked at temperatures up to 300°F.

All are available in quart, 1 gallon and 5 gallon containers.

SPECIFICATIONS

ELIMSTAT® UXM CCP

Composition:	Water-borne urethane, leveling agent, conductive agents
Percent Solid:	44- 46%
Specific Gravity:	1.02
pH:	9.02
Viscosity:	Brookfield #3 Spindle at 50 RPM - 440 CPS
Weight Per Gallon:	8.82 lbs.
Recoatability:	Excellent
Water Resistance:	Excellent
Freeze/Thaw:	3 cycles
Coverage:	400 sq. ft./gal.
Color:	Grey
Resistivity:	500,000 ohms/in^2 10^4 - 10^6

ELIMSTAT® UXM-60P

Composition:	Water-borne urethane, leveling agent, conductive agents
Percent Solid:	44- 46%
Specific Gravity:	1.02
pH:	9.02
Viscosity:	Brookfield #3 Spindle at 50 RPM - 440 CPS
Weight Per Gallon:	8.82 lbs.
Recoatability:	Excellent
Water Resistance:	Excellent
Freeze/Thaw:	3 cycles
Coverage:	400 sq. ft./gal.
Colors:	Grey, green, blue, tan, yellow, white
Resistivity:	10^7-10^9 ohms/in^2

ELIMSTAT® UXM-600

Total Solids:	30% (depending upon conductivity)
pH:	9.0
Weight Per Gallon:	8.5
Flash point F, Pensky Martens closed cup:	No flash point
Freeze/Thaw Stability:	Passes 5 cycles
Acid Number on Solids:	30
Colors:	Clear, black
Viscosity:	Black - 560 CPS Clear - 120 CPS
Resistivity:	10^4 - 10^5 ohms/in^2 Black: 10^4 - 10^6 Clear: 10^7 - 10^9

Chemical Resistance

Toluene, 1 hour immersion:	No effect
Gasoline, 1 hour immersion:	No effect
Methylethylketone: 100 double rubs	No effect
Glacial Acetic Acid:	Slight softening, 1 hour spot test recovers
1 N NaOH, 1 hour spot test:	No effect

Cleveland Cabinet Humidity Resistance

Rusting (ASTM D610):	No effect
Blistering (ASTM D714):	No effect

SPECIFICATIONS

STAT-LES® 24% or 18%

Composition:	Metal cross link acrylic copolymer
Solids:	24% or 18%
Density:	8.63 lbs./gal.
Specific Gravity:	@ 60° F - 1.037
Oven Stability:	ANSI/ASTMD 1791-66 (accelerated aging of water emulsion floor polishes) – no change
Coverage:	2000 sq. ft. per gal.
pH:	8.4
Resistivity:	10^7 - 10^9 ohms
Conductivity Range:	Static dissipative
Static Delay:	.07 seconds (Mil-B-81705B-5kV charge to 0 kV)

URE-STAT™

Type:	Metal cross link acrylic copolymer, urethane re-inforced
Solids:	20%
Density:	8.63 pounds/gallon
Specific Gravity:	@ 60° F - 1.037
Drying Time:	@ 40% RH and 70° F 45
Oven Stability:	ANSI/ASTMD 1791-66 (accelerated aging of water emulsion floor polishes) — no change
Coverage:	2000 sq. ft. per gal.
pH:	8.4
Resistivity:	10^7-10^9 ohms/inch on two coats
Conductivity Range:	Static dissipative
Static Delay:	.07 seconds (Mil-B-81705B–5kV charge to 0 kV)

ESD Floor Finishes and coatings work best when used in a complete system of static control. The use of personnel grounding devices (ie.) Foot Grounders or Wrist Straps is recommended.

STAT-LES® (24% or 18%)

ITEM #K4080 (24%)

ITEM #K4081 (18%)

Static Dissipative Floor Finish

Formulated with conductive polymers to both reduce tribo-electric charging and create a static dissipative surface. Use on floors to create a static dissipative surface (10^7 - 10^9 ohms). May also be used to protect static dissipative tiles without affecting readings. Provides excellent gloss to any surface. Metal cross-link, acrylic copolymers provide excellent durability in any interior environment. STAT-LES is easy to apply with a mop and is easily removed with STAT-LES STRIPPER. Maintain your STAT-LES treated floor with the complete STAT-LES SYSTEM for ease of maintenance and longevity.

See the complete STAT-LES SYSTEM on page 7.

URE-STAT™

ITEM #K4087

Static Dissipative Floor Finish — Reinforced With Water-Based Urethane

Finally an alternative to regular dissipative floor finish. URE-STAT is formulated with a special water based urethane that dramatically increases the life and durability of the finish.

URE-STAT was specifically developed for durability, ease of maintenance and effective ESD properties to ensure long lasting static protection. URE-STAT locks in ESD properties for the life of the finish. Water resistance is dramatically increased. Daily maintenance with the proper LEGGE cleaners will not adversely affect readings.

Both are available in 1 gallon, 5 gallon and 55 gallon containers.

MAINTENANCE PROCEDURES... DID YOU KNOW?

Improper maintenance procedures can be catastrophic to your ESD program. Regular everyday cleaners not specifically manufactured for ESD surfaces can leave a film that will insulate the ESD surface and create a static charge. Most complaints of surfaces not reading in the proper conductivity range can be traced back to improper maintenance. The implementation of a proper ongoing maintenance program is critical to your ESD program. LEGGE offers training for maintenance personnel to help them achieve optimum results.

ESD FLOOR FINISH

- Daily Maintenance is accomplished with **STAT-LES CLEANER**, a concentrated, non-ionic, neutral pH detergent designed to clean and retain the natural ESD reading.
- Use at only one to three ounces per gallon of water.
- Damp mop the area and do not rinse. If floor is extremely soiled, re-apply using a clean use dilution of **STAT-LES CLEANER**.
- Use an Auto Scrubber for larger areas.
- Connect to an automatic dilution center for accurate measurements.
- Repair and maintain with **STAT-LES SPRAY BUFF.**
- Remove finish with **STAT-LES STRIPPER.**

ESD COATINGS

- For added protection, durability and ease of maintenance consider applying an **ESD Floor Finish**.
- Daily Maintenance is accomplished with **STAT-LES CLEANER.**
- Heavy duty cleaning is best accomplished with **LEGCLEAN,** an all-purpose, non-insulating cleaner.
- Repairs to high traffic areas and damaged areas is accomplished with a heavy duty cleaning, a thorough drying time and a re-coat in the affected area.

ESD BENCH TOPS, CHAIRS, MATTING AND LAMINATES

- All ESD surfaces including laminates, matting, bench tops etc need to be cleaned on a regular basis to maintain resistance readings.
- **STAT-LES CLEANER** is recommended for all surfaces
- **CONDUCTIVE CLEANER** is a convenient, ready-to-use, cleaner. It enhances the static discharge capabilities of the surface by leaving behind a slight, non-film forming ESD residual — helping to maintain the surfaces' ESD properties.
- Dirt will insulate these surfaces and must be removed regularly.

NON-ESD SURFACES

- **CONDUCTIVE CLEANER** may be used on non-ESD surface to create a static dissipative surface.
- **STATICO** is a ready to use, topical anti-stat. Creates a longer lasting static dissipative surface. Cleans as it treats the surface.
- **STATICO AE** is recommended for carpets and fabrics — chairs, couches etc.

APPLICATION TIPS: Use an automatic proportioning system to get exact dilution every time. A proportioner will save time, labor and money by automatically diluting the proper amount of concentrate.

Consider using an auto-scrubber for maintenance. This machine will put the proper amount of cleaning solution on the floor, agitate and pickup the residual in one pass.

SPECIFICATIONS

STAT-LES® CLEANER

Type:	Static Dissipative Cleaner
Percent Active:	16%
pH:	11.01
Color:	Clear
Specific Gravity:	1.008
Weight Per Gallon	8.4 lbs.
Oven Stability:	ANSI/ASTMD 1791-66 — no change
Flash point:	None
Phosphates:	None
Freeze/Thaw Stability:	3 cycles
Viscosity:	10 CPS
Conductivity:	25% solution — 10^8 - 10^9 ohms/in^2

STAT-LES® SPRAY BUFF

Neutral, biodegradable, anti-static Spray Buff

Specific Gravity:	1.008
pH:	7.5 - 7.7
Weight Per Gallon:	8.41 lbs.
Color:	Clear
Oven Stability:	ANSI/ASTMD 1791-66 — no change
Flammability:	None
Freeze/Thaw:	Three cycles
Phosphates:	None

STAT-LES® STRIPPER

Description:	Non-butyl stripper
Specific Gravity:	.988
pH:	10.7
Viscosity:	16 CPS
Weight Per Gallon:	8.25 lbs
Color:	Clear
Flash Point:	None
Butyl Content:	None
Phosphates:	None
Abrasives:	None
Coverage Per Gallon:	2000 sq. ft.

All are available in 1 gallon, 5 gallon and 55 gallon containers.

STAT-LES®

A COMPLETE FLOOR CARE SYSTEM

Cleaner • Stripper • Spray Buff

STAT-LES® CLEANER

ITEM #K4050

A major concern when implementing a sound ESD program is the cleanliness of the surface. Whether the surface is a work station, matting, floor finish or coating, dirt and soil build up daily and are detrimental to maintaining a static free work area. The reason is that dirt insulates your surface and has the potential to generate static charges.

There are many all purpose non-conductive cleaners available to wash standard flooring and work surfaces. However, many such cleaners leave behind a film that will also insulate a static dissipative or conductive surface.

Through extensive research and over 60 years of experience in the ESD field, LEGGE has developed the solution to cleaning these special surfaces.

STAT-LES CLEANER has been specifically formulated to be used in static sensitive environments. Use on any surface not affected by water, including all types of conductive and static dissipative flooring, matting and tabletops. STAT-LES CLEANER is supplied as a concentrate for economical use. When used as directed, STAT-LES CLEANER will enhance the surface conductivity readings of static dissipative floor finishes and coatings (conductive and static dissipative). No rinsing is required — saving valuable man hours.

STAT-LES® SPRAY BUFF REJUVENATOR

ITEM #K4085

Maintain your STAT-LES treated floors with STAT-LES SPRAY BUFF REJUVENATOR — specifically formulated to keep your floors looking like the original application of STAT-LES FLOOR FINISH. May be applied by spray on or mop on method. If you are not using the complete STAT-LES SYSTEM you may be compromising your static control. Most cleaners adversely affect the resistance readings. LEGGE has developed a complete systems approach — from STRIPPER to CLEANER to SPRAY BUFF — for the most comprehensive care of your static dissipative floors.

STAT-LES® STRIPPER

ITEM # K9021

STAT-LES STRIPPER is formulated for the quick and efficient removal of STAT-LES FLOOR FINISH and other finishes based on regular and metal cross–linked polymers. Will not leave an insulating film on conductive flooring. Non-butyl, odorless and non-flammable formulation.

STATSHINE™

ITEM #K4070

Non-slip Cleaner/Conditioner Concentrate for Conductive Flooring

Non-insulating Anti-static Cleaner/Conditioner that cleans, shines and increases slip resistance without build-up or resistance change.

STAT-SHINE is formulated for proper maintenance of conductive and static dissipative floors (i.e.: epoxy, vinyl tiles, etc.). Non film-forming, cleans and protects conductive floors, prevents buildup, improves slip resistance and maintains conductivity. Floors can be machine scrubbed, damp mopped or spray buffed as required with use dilution.

When scrubbing or mopping, solution can be picked up with wet vacuum or mop. No rinsing required. If floors are heavily soiled, repeat procedure.

ELIMSTAT® SDEC 5012

ITEM #K4082

Static Dissipative Sealer

Clear, water based, acrylic coating designed to dissipate static charges on various surfaces such as walls, tote boxes, plastics and most other static generating objects.

ELIMSTAT SDEC 5012 will dissipate a 5000 volt charge to OV in less than .01 seconds and is rated at 10^7 - 10^{10} ohms. ELIMSTAT SDEC 5012 is non-flammable and dries in 30-45 minutes depending on humidity and temperature. Two coats are recommend for extended wear. ELIMSTAT SDEC 5012 may be brushed, rolled, sprayed or applied by cloth, cleaned with STAT-LES CLEANER and removed completely with STAT-LES STRIPPER.

Both are available in quart, 1 gallon, 5 gallon and 55 gallon containers.

SPECIFICATIONS

STATSHINE™

Composition:	Acrylic with natural soap cleaner, slip resistant additive
Specific Gravity:	1.012 @60° F
Weight Per Gallon:	8.42 lbs.
pH:	9.0 - 9.2
Total Solids:	8.6 - 9.0 Theoretical
Color:	Opaque
Flash Point:	None
Phosphates:	None
Biodegradable:	Yes
Coverage:	1800 - 2200 sq. ft./gal.

ELIMSTAT® SDEC 5012

Composition:	Metal cross link acrylic copolymer
Density:	8.63 lbs./gal.
Specific Gravity:	1.035
Oven Stability:	ANSI/ASTM 1791-66 – no visible change
Water Spotting:	ANSI/ASTM 1793 – not affected by water
Coverage:	1800 - 2000 sq. ft. per gal.
pH:	8.3
Resistivity:	10^8 - 10^{10} ohms 0 - 60% Relative humidity and temperature - 70° F
Conductivity Range:	Static dissipative

NOTE: Ordinary general purpose cleaners and non-ESD floor finishes will affect conductivity of floors. **STAT-SHINE** is formulated as a one-step cleaner and conditioner that will not affect conductivity needed to dissipate static buildup. Especially useful on vinyl and composition conductive floors. Decreases tribo-electric charge generation on conductive vinyl floors.

SPECIFICATIONS

LEGCLEAN®

Composition:	Anionic, nonionic, surfactant, emulsifiers, wetting agents and rinsing additives
Active:	18% theoretical
pH of Concentrate:	12.5 - 12.6
Specific Gravity:	1.026 @ 60°/60° F
One Gallon Weight:	8.54 lbs.
Color:	Light straw
Viscosity:	Heavy liquid
Flash Point:	None
Phosphates:	None
Ammonium:	None
Solvent Content:	None
Perfume:	Natural citrus

CONDUCTIVE CLEANER

Description:	Mild, neutral pH cleaner/degreaser
Resistance Reading on Non-Condutive Surface:	10^9 - 10^{10} ohms per sq. in.
Specific Gravity:	1.060
pH:	7.0
Viscosity:	14 CPS
Weight Per Gallon:	8.35 lbs.
Color:	Green
Flash Point:	None
Butyl Content:	None
Phosphates:	None
Abrasives:	None
Coverage Per Qt.:	1500 sq. ft.

Did you know...

Ordinary all-purpose cleaners leave behind an insulating residue. Legge's ESD maintenance cleaners have been researched and developed to be non-insulating as well as superb cleaners. See page 6 to learn more about maintaining all types of ESD surfaces.

LEGCLEAN®

ITEM #K8070

Concentrated

LEGCLEAN is truly an all purpose cleaner that can be used on any and all ESD and non-ESD surfaces — from footware testers, table and floor mats, walls, floors, etc. LEGCLEAN contains several non-ionic surfacants to quickly remove unwanted dirt. LEGCLEAN has exceptional rinsability. It contains a special rinsing agent which leaves an extremely clean surface and will not leave an insulating film on static control products.

LEGCLEAN is formulated to clean our conductive footwear and wrist strap testers as well as personnel grounding devices. Easily removes stubborn dirt and stains and may be used on any hard surface.

Both are available in 1 gallon, 5 gallon and 55 gallon containers

CONDUCTIVE CLEANER®

ITEM #K4061

Ready To Use Cleaner

Neutral pH CONDUCTIVE CLEANER enhances and maintains conductivity on static dissipative and conductive surfaces. Eliminates static charges on insulative surfaces by providing conductivity in the static dissipative range.

Recommended for use on all conductive and static dissipative surfaces. Treated and cleaned with CONDUCTIVE CLEANER, non–conductive surfaces will read static dissipative (10^9 - 10^{10} ohms). Excellent cleaning ability with no rinsing required.

Also available in economical concentrate.

STATICO™

ITEM #K4060

Ready to Use Topical Antistat · Effective Cleaner · Dust Eliminator

STATICO has been formulated to eliminate static charges and prevent buildup of triboelectric charges by providing surface conductivity on non-conductive surfaces for extended periods of time.

By spraying, dipping, wiping or damp mopping almost any surface can be static free. Because STATICO contains no solvents or abrasives and is non-flammable it can be used on any surface not affected by water. Also available in economical concentrate, ITEM # K4065.

Independent Laboratories have tested STATICO under the most stringent conditions. These tests were conducted at 72° F and 12% relative humidity. STATICO exceeds the standards set forth in MIL– B–81705B, ASTM–D–257–80, Electronic Industry 1S–5.

All Statico products are available in 4 oz., 32 oz.,1 gallon, 5 gallon containers.

STATICO™ #2

ITEM #K4068

Topical Antistat for Food Contact Areas

STATICO #2 offers both static control and food contact certification.

- Meets FDA Title 21, par. 178.3130 for N, N-Bis (2 hydroxyethyl) dodecanamide, an antistatic agent intended for contact with honey, chocolate, liquid sweeteners, condiments, flavor extracts, and liquid flavor concentrates, grated cheese, light and heavy cream, yogurt and any food type that is a dry solid with the surface containing no free fat or oil.
- Safe and effective for housewares applications: polyethylene and/or polypropylene straws and polystyrene cup.
- Does not affect polyethylene film quality or clarity at recommended use dilution.

SPECIFICATIONS

STATICO™

Type:	High molecular weight topical antistat, water base
Appearance:	Clear liquid
Flash Point:	None
Explosion Hazard:	None
Specific Gravity:	1.00 @ 60°/60° F
Weight Per Gallon:	8.33 lbs.
Odor:	None
pH:	7.71
Static Decay Rate:	0.01 Sec + 5.0 KV
MIL-B-81705 B at Rel. Humidity:	12%, 72°F
Resistivity:	10^9 - 10^{10} ohms/in^2
Conductivity:	Static dissipative

STATICO™ #2

Type:	Topical antistat for food contact surfaces
Appearance:	Clear liquid
Specific Gravity:	0.99
Boiling Point:	212° F
Flash Point:	None
Resistivity:	10^{10} ohms per sq. in.
Decay Rate:	Less than 1 second
Coverage per quart:	4000 per sq. ft.
Conductivity:	Static dissipative

Did you know…

Objects and surfaces which are non-conducting (also referred to as insulators) are also static generators. Topical anti-stats are a simple and effective way of making almost any surface ESD safe. Use anywhere static needs to be controlled. The uses are limitless, but some include; carpets, chairs, workstations, TV and computer screens, clothing etc.

SPECIFICATIONS

STATICO™ AE

Type:	Water-based topical antistat
Appearance:	Clear Liquid
Flash Point:	None
Specific Gravity:	1.02
Weight per Gallon:	8.34
Odor:	None
pH:	7.21
Resistivity:	10^7 - 10^8 after dry
Conductivity:	Static dissipative

ELIMSTAT® ATS

Type:	Water-based topical antistat
Appearance:	Clear Liquid
Flash Point:	None
Specific Gravity:	1.04
Weight per Gallon:	8.36
Odor:	None
pH:	7.8
Resistivity:	10^9 - 10^{10} ohms after dry
Conductivity:	Static dissipative

Did you know…

ELIMSTAT ATS is used extensively in the manufacture of plastics. Venetian and mini blind manufactures use ELIMSTAT ATS to control static and keep blinds dust free. ELIMSTAT ATS may be applied by spraying, wiping or dipping and is easily designed into the manufacturing process.

STATICO™ AE

ITEM #K4067

Topical Antistat for Carpets, Upholstry and Fabrics

Formulated to eliminate static charges on carpets, upholstery and fabrics. Effectively prevents triboelectric charge buildup by increasing surface conductivity for an extended period of time.

STATICO AE contains no solvents or abrasives and is non-flammable. Apply by spraying with a fine mist — do not soak. Heavy traffic areas may need treatment more often.

ELIMSTAT® ATS

ITEM #K4062

Concentrated Topical Antistat · Prevents Dust Deposits · Controls Static Charges on Insulating Surfaces

Water based ELIMSTAT ATS is formulated for use where static electricity needs to be controlled. ELIMSTAT ATS will make any surface it is applied to static dissipative and eliminate static charges in static sensitive environments. By eliminating static charges and controlling static generation, nuisance problems such as static cling as well as problems associated with manufacturing plastics and damage to electronic components are overcome.

ELIMSTAT ATS is supplied as a concentrate for economical use. Dilute to 8 ounces per gallon of water for long-term effectiveness. ELIMSTAT ATS is non-flammable and fully biodegradable.

Available in 1 gallon, 5 gallon and 55 gallon containers.

WRISTATS®

ADJUSTABLE WATCH BAND

The 200 Series WRISTAT adjustable watch band will not pull hair or pinch skin. Maintains superb electrical contact to wrist with easy adjustment to almost any wrist size. Long lasting and easy to clean band. All outside surfaces are fully insulated to protect wearer. Hypo-allergenic stainless steel used throughout band. May be used for clean room use.

NOTE: WRISTAT® item numbers follow this standard nomenclature:
Series# - Cord Length - Resistor Value

WITH STRAIGHT CORD		WITH COIL CORD	
LIGHT WEIGHT	**HEAVY WEIGHT***	**LIGHT WEIGHT**	**HEAVY WEIGHT***
#200AS - 4' - 1M	#225AS - 4' - 1M	#210AS - 6' - 1M	#226AS - 6' - 1M
#200AS - 8' - 1M	#225AS - 8' - 1M	#210AS - 12' - 1M	#226AS - 12' - 1M
			#226AS - 24' - 1M


Adjustable Watch Band

ADJUSTABLE ELASTIC BAND

Fully adjustable elastic band with silver coated nylon filaments for exceptional contact. This unique design combines long lasting, built in memory with unparalleled comfort and reliability. The nylon filaments on the underside of the WRISTAT are permanently coated with silver. Silver is much lower in resistance than conventional metals which makes the 300 Series WRISTAT more conductive than regular brands. The silver coated nylon eliminates the inherent hazard of stainless steel fibers breaking off from the bands. The buckle design allows the user to make unlimited adjustment with little effort and no effect on the bands elasticity.

WITH STRAIGHT CORD		WITH COIL CORD	
LIGHT WEIGHT	**HEAVY WEIGHT***	**LIGHT WEIGHT**	**HEAVY WEIGHT***
#300AE - 4' - 1M	#325AE - 4' - 1M	#310AE - 6' - 1M	#326AE - 6' - 1M
#300AE - 8' - 1M	#325AE - 8' - 1M	#310AE - 12' - 1M	#326AE - 12' - 1M
			#326AS - 24' - 1M


Adjustable Elastic Band

HOOK & LOOP BAND

Non-irritating Hook & Loop Band adjusts to be worn on any size wrist snugly and comfortably. Electrical contact maintained with a metal plate under buckle.

WITH STRAIGHT CORD		WITH COIL CORD	
LIGHT WEIGHT	**HEAVY WEIGHT***	**LIGHT WEIGHT**	**HEAVY WEIGHT***
#2500 - 4' - 1M	#2506 - 4' - 1M	#2700 - 6' - 1M	#2600 - 6' - 1M
#2500 - 8' - 1M	#2506 - 8' - 1M	#2700 - 12' - 1M	#2600 - 12' - 1M
			#2600 - 24' - 1M


Hook & Loop Band

Heavyweight models are available with 1 meg, 510K, 270K or 51K resistors.

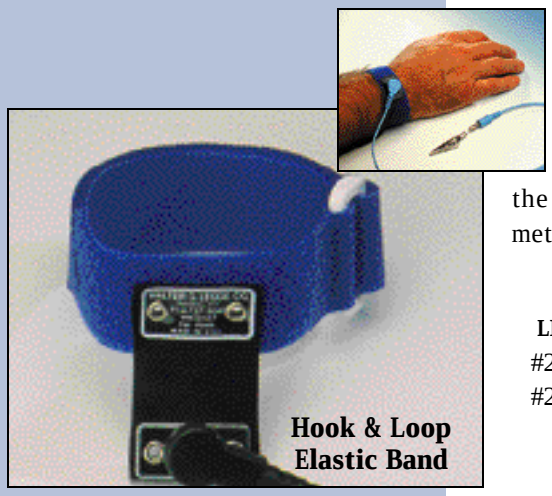
Increase skin conductivity naturally with AloeStat®. See page 28.

Stainless Steel Band

STAINLESS STEEL BAND

Single stainless steel band makes contact with wearer's wrist. Exterior is coated with an insulating coating. Fully adjustable to any wrist size. May be used for clean room use.

WITH STRAIGHT CORD		WITH COIL CORD	
LIGHT WEIGHT	HEAVY WEIGHT*	LIGHT WEIGHT	HEAVY WEIGHT*
#340SRC - 4' - 1M	#360SRC - 4' - 1M	#350SRC - 6' - 1M	#361SRC - 6' - 1M
#340SRC - 8' - 1M	#360SRC - 8' - 1M	#350SRC - 12' - 1M	#361SRC - 12' - 1M
			#361SRC - 24' - 1M



Hook & Loop Elastic Band

HOOK & LOOP ELASTIC BAND

Non-irritating elasticized VELCRO® Hook & Loop Band adjusts to be worn on any size wrist snugly and comfortably. The elastic properties make this band the most comfortable wrist strap of its type. Electrical contact maintained with a metal plate under buckle.

WITH STRAIGHT CORD		WITH COIL CORD	
LIGHT WEIGHT	HEAVY WEIGHT*	LIGHT WEIGHT	HEAVY WEIGHT*
#2500HLE - 4' - 1M	#2506HLE - 4' - 1M	#2700HLE - 6' - 1M	#2600HLE - 6' - 1M
#2500HLE - 8' - 1M	#2506HLE - 8' - 1M	#2700HLE - 12' - 1M	#2600HLE - 12' - 1M
			#2600HLE - 24' - 1M

PALM-STAT

PALM-STAT™

NEW

ITEM #300M or 300L

Grounding Device for Spray Paint Operations

Controls Static Electricity during spray paint operations. Allows spray operator to wear conventional gloves as PALM-STAT fits over the glove and makes positive contact with the spray gun. Conductive neoprene is solvent resistant. Medium and large sizes available. No cords to ground, eliminating restrictions on the operator as well as safety hazards.

Adjustable Elastic Band

WRISTAT® GROUND CORDS — Straight

ITEM #2707

LIGHTWEIGHT: A single conductor tinned copper stranded (105 strands of 44 gauge wrapped) 24AWG wire with clear insulation. Available in 4' & 8' lengths with 1/4" nickled snap socket and a 1 meg ohm 1/4 watt carbon filled resistor molded on one end. A banana plug is molded on the other end which plugs into an alligator clip or optional end termination.

ITEM #2803

HEAVYWEIGHT: A double conductor (1 tinned & 1 copper) stranded (each conductor 10 strands of 30 gauge wrapped) 20 gauge wire with clear insulation. Available in 4' & 8' lengths (or custom lengths). A molded, nickled 1/4" snap socket and a 1 meg ohm resistor is attached to one end with a soldered alligator clip on the other end.

Straight Cords - Heavy & Lightweights

WRISTAT® GROUND CORDS — Coil

ITEM #2703

LIGHTWEIGHT: A single conductor (wrapped 105 strand 55 gauge) 24AWG with blue insulation. Wire O.D. = .095" with a coil O.D. of .375". Available in 6' or 12' extended length. A nickled 1/4" snap socket and a 1 meg ohm resistor is molded on one end with a banana plug (which plugs into alligator clip or optional BULLDOG CLIP) on the other end.

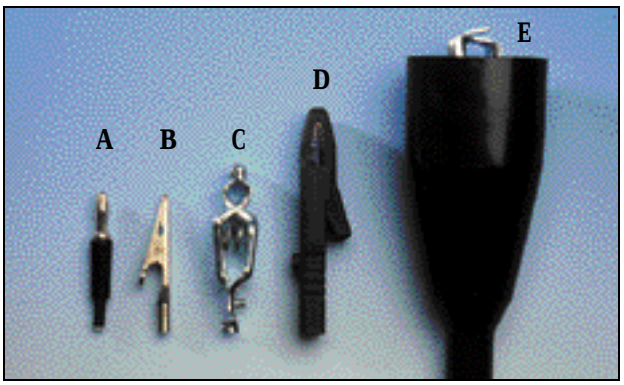
Coil Cord - Lightweight

ITEM #2804

HEAVYWEIGHT: A single tinned copper conductor (wrapped 105 strand 40 gauge) 20AWG with black insulation. Wire O.D. = .145" with a coil O.D. of .475". Available in 6', 12' or 24' extended length. A molded 1/4" nickled snap socket and a 1 meg ohm resistor is attached to one end with a soldered alligator clip on the other end.

Coil Cord - Heavyweight

TERMINAL ENDS



A. Banana Jack Adapter

B. #2705 Alligator Clip

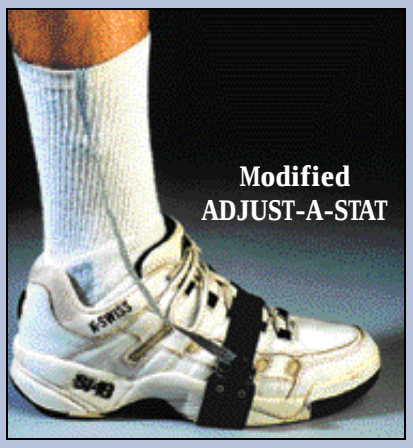
C. Snet Clamp

D. #2704 Bull Dog Clip

E. Mueller Clamp

NOTE: Ground cords may be customized with 1/4" molded snaps and a 510K ohm, 270K ohm or 51K ohm resistor on one end and a variety of ground connections on the other end. The molded end is color coded and cords are marked with resistor value.

All of the above WRISTAT® ground cords may be used with any of LEGGE'S WRISTBANDS.



ADJUST-A-STAT® (for heeled shoes)

A conductive cushioned neoprene rubber strap worn under the shoe arch for positive contact to the floor. An adjustable strap fits over the shoe. A conductive "tongue" fits under the heel of the foot for positive contact.

Also available in new Comfort Flex HLE design.(hook & loop elastic)

ITEM:		
	#2650	**#2660HLE**
	#2651–1 Meg Resistor	**#2661HLE–1 Meg Resistor**
	#2651–2 Meg Resistor	**#2661HLE–2 Meg Resistor**
	#2651–51K Resistor	**#2661HLE–51K Resistor**
	#2651–270K Resistor	**#2661HLE–270K Resistor**
	#2651–510K Resistor	**#2661HLE–510K Resistor**

MODIFIED ADJUST-A-STAT® (for flat soled shoes)

Similar to the regular ADJUST–A–STAT but designed to be worn with flat soled shoes. Made with non-marking two-layer reinforced conductive rubber.

Also available in new improved Comfort Flex HLE design.

ITEM:		
	#2655	**#2665HLE**
	#2656–1 Meg Resistor	**#2665HLE–1 Meg Resistor**
	#2656–2 Meg Resistor	**#2665HLE–2 Meg Resistor**
	#2656–51K Resistor	**#2665HLE–51K Resistor**
	#2656–270K Resistor	**#2665HLE–270K Resistor**
	#2656–510K Resistor	**#2665HLE–510K Resistor**

LEGSTAT® (for heeled shoes)

Designed for use on shoes with heels, to be worn by mobile personnel on conductive or static dissipating floors. Fits over any size shoe. Manufactured with new very soft under–arch pad on a conductive neoprene rubber strap to maintain positive contact to the floor without restricting the mobility of personnel.

ITEM:	
	#2000
	#2100–1 Meg Resistor
	#2100–2 Meg Resistor
	#2100–51K Resistor
	#2100–270K Resistor
	#2100–510K Resistor

LEGSTAT® HLE

The Walter G. LEGGE Co., Inc. manufactures over 200 models of various personnel grounding devices — both stock and custom design. These items control static electricity in static sensitive areas with various resistor values for specific applications and specifications. Resistor values of 51K, 270K, 510K, 1meg and 2megs are available. A 2meg resistor will impart a 1meg resistance to ground when worn on both feet as recommended.

Custom design models and modifications to existing models may be designed and manufactured in a short time frame with no minimum. WRISTATS® are sold as a single unit and grounding devices to be worn on the feet are sold in pairs and must be worn in pairs.

LEGSTAT® HLE (for heeled shoes)

New improved Comfort Flex HLE design, incorporates fully adjustable elastic hook and loop upper with soft under-arch pad on neoprene conductive rubber.

ITEM #'s:

2010HLE, 2110HLE - 1 MEG Resistor, 2110HLE - 2 MEG Resistor, 2110HLE - 51K Resistor, 2110HLE - 270K Resistor, 2110HLE - 510K Resistor

MODIFIED LEGSTAT® (for flat soled shoes)

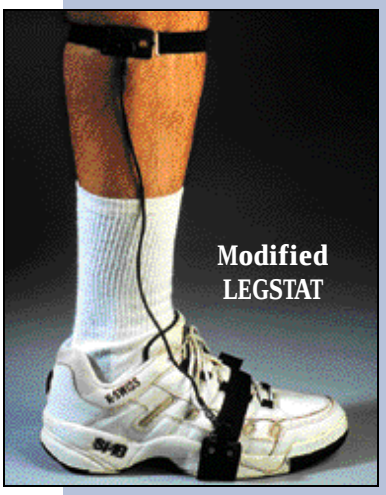
Non-marking 2 layer reinforced conductive rubber strap fits comfortably under soft or regular flat soled shoes of all sizes. An adjustable strap assures snug fit. Unit connects to the standard LEGSTAT garter assembly and includes all the quality features of our regular LEGSTAT unit.

ITEM #'s:

2050, 2150 - 1 MEG Resistor, 2150 - 51K Resistor, 2150 - 270K Resistor, 2150 - 510K Resistor

ITEM #'s:

2060HLE, 2160HLE - 1 MEG Resistor, 2160HLE - 2 MEG Resistor
2160HLE - 51K Resistor, 2160HLE - 270K Resistor, 2160HLE - 510K Resistor



SOLESTAT® (for heeled shoes)

Because many women, as well as some men, prefer the convenience of an inner-sole to that of a garter, the Walter G. LEGGE Company, also manufacturers SOLESTATS. Universal in its wearability with any type or size shoe, SOLESTAT achieves effective skin contact by means of a conductive innersole.

ITEM #'s:

2200, 2211 - 1 MEG Resistor, 2211 - 2 MEG Resistor, 2211 - 51K Resistor, 2211 - 270K Resistor, 2211 - 510K Resistor

SOLESTAT® HLE (for heeled shoes)

Same as SOLESTAT, but with new Comfort Flex HLE design, fully adjustable elastic hook and loop upper.

ITEM #'s:

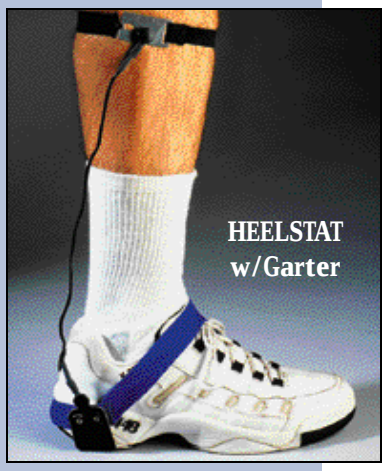
2210HLE, 2221HLE - 1 MEG Resistor, 2221HLE - 2 MEG Resistor, 2221HLE - 51K Resistor, 2221HLE - 270K Resistor, 2221HLE - 510K Resistor

MODIFIED SOLESTAT® (for flat soled shoes)

Same as SOLESTAT, but designed to be worn with flat sole shoes. Made with non-marking two-layer, reinforced conductive rubber.

ITEM #'s:

2250, 2251 - 1 MEG Resistor, 2251 - 2 MEG Resistor, 2251 - 51K Resistor
2251 - 270K Resistor, 2251 - 510K Resistor



All units with garter assembly are also available with new comfort strap.

MODIFIED SOLESTAT® HLE (for flat soled shoes)

Same as MODIFIED SOLESTAT, but with new Comfort Flex HLE design, fully adjustable elastic hook and loop upper. Made with non-marking two-layer reinforced conductive rubber.

ITEM #'s:

2260HLE, 2261HLE–1 MEG Resistor, 2261HLE–2 MEG Resistor, 2261HLE–51K Resistor, 2261HLE–270K Resistor, 2261HLE–510K Resistor

HEELSTAT™ (for both flat and heeled shoes)

New, completely adjustable design, manufactured to the highest standards of quality and versatility. Can be worn on any size low heel or flat soled shoe. Two elastic adjustable hook and loop straps, ultra sonic welded and permanently fastened with metal eyelets to non-marking two-layer, (white/black) reinforced conductive rubber, provides easy adjustment and comfort. HEELSTAT can be worn with garter assembly, with or without resistor, or with conductive inserts inside of shoe.

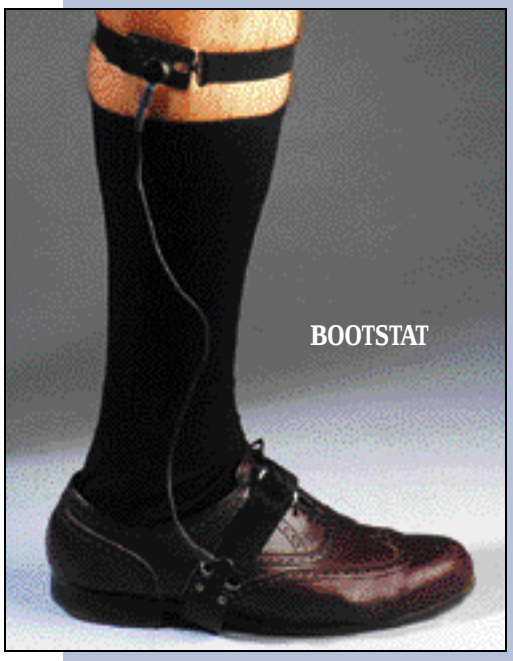
ITEM: #1720	With garter assembly, no resistor
#1721-1 MEG	Same as 1720 with the addition of 1 meg resistor. Optional 2 MEG, 51K, 270K, or 510K available.
#1722	Same as 1720 but contact with the wearer is provided via a conductive SOLESTAT insert that fits into shoe for contact. SOLESTAT insert is made of conductive neoprene.
#1723	Same as 1722 with the addition of 1 meg resistor. 2 MEG, 51K, 270K, or 510K resistor available.
#1726	Same as 1720 but contact with the wearer is provided via a conductive strip insert that fits into shoe. ADJUST-A-STAT insert is made of conductive fabric.
#1727	Same as 1726 with the addition of 1 meg resistor. 2 MEG, 51K, 270K or 510K resistor available.

HEELSTAT with Garter

BOOTSTAT® (for heeled boots or shoes)

Conductive neoprene rubber foot strap designed to be worn under the arch of the shoe by mobile personnel on conductive or static dissipative floors. Similar to LEGSTAT #2000 but with an adjustable strap over the shoe to accommodate larger boot sizes.

ITEM #'s:
1950, 1955 - 1 MEG Resistor, 1955 - 2 MEG Resistor, 1955 - 51K Resistor
1955 - 270K Resistor, 1955 - 510K Resistor

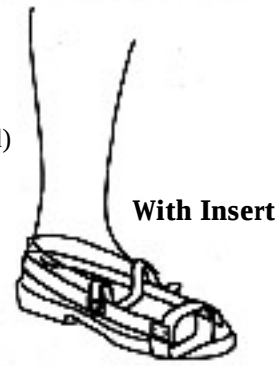

BOOTSTAT

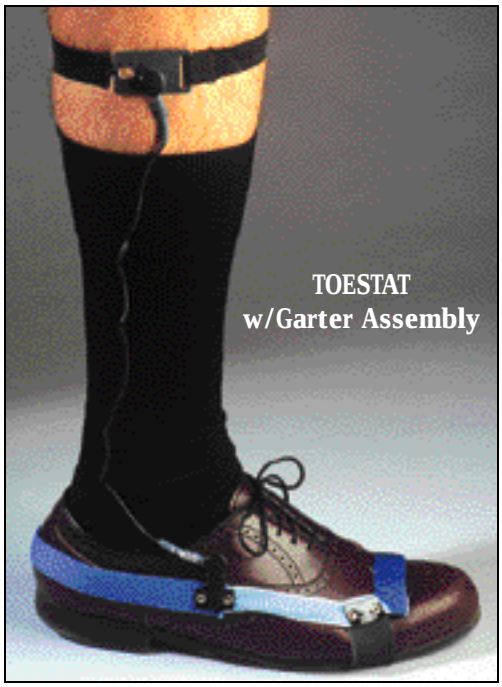
TOESTAT™ (for both heeled or flat soled shoes)

Designed for use on any shoe, but is excellent on a woman's high heeled shoe. Positive contact with the floor is made on the forward part of the shoe with a strip of non-marking two-layer reinforced conductive rubber. A Velcro closure is used on top of the unit to ensure proper adjustments. A comfortable elastic band attaches to the ground conductor Velcro closure and wraps around the back of the heel to ensure comfort and fit. Available with any one of our standard body contacts (garter, insert or SOLESTAT insert) with or without resistor.

ITEM: #1620	With garter
#1621 - 1 MEG	With garter and resistor
#1622	With SOLESTAT insert (not pictured)
#1623 - 1 MEG	With SOLESTAT insert and resistor (not pictured)
#1626	With ADJUST-A-STAT insert
#1627 - 1 MEG	With ADJUST-A-STAT and resistor

*Also available with 2 MEG, 51K, 510K, 270K resistors


With Insert


TOESTAT
w/Garter Assembly

SPECIFICATIONS

(ON FACING PAGE)

TWO LAYER LEGMAT

Resistance from Surface to Ground:	10^7 - 10^9 ohms EOS/ESD Std-4
Charge decay time:	<.01 seconds Fed Std 101 Met 4046
Surface Resistance:	10^7 - 10^9 ohms ASTM D257
Point to Point Resistance:	10^7 - 10^9 ohms EOS/ESD Std–4
Surface Resistance (bottom):	<10^5 ohms ASTM D257
Thickness (Total Mat):	.60 +/– .002 inches
Tensile Strength:	1000 psi ASTM D412
Durometer:	60 ASTM D2240 (Shore A)
Chemical Resistance:	Excellent (Use LEGGE's CONDUCTIVE CLEANER for daily and as needed cleaning)
Solder Resistance:	Excellent (molten solder has no effect)
COLOR:	Black/Blue

SPECIFICATIONS

1/8" LEGMAT

Thickness:	Nominal 1/8" 0.120 in. + 0.005 in.
Weight:	0.94 lbs./ft.^{2}
Hardness: Shore "A" Durometer ASTM D-2240-75	70 + or – 3
Tensile Strength: ASTM D–412–75	700 + or – 50 psi
Elongation - 100%: ASTM D-412-75	240 + or – 25%
Tear Strength-Die"C": ASTM D-624-73	100 + or – 10 lbs./in.
Wear Resistance/ Weight Loss: Tabor Abrader 1000 Cycles CS-17 Wheels 1000 Grams Load	Less than 0.02 grams
Flame Resistance Methenamine Tablet Test: DOC-FF1-70	Less than 0.5 in.
Limiting Oxygen Index: ASTM D-2863-77	Greater than 27%
FMVSS302:	Passes
ELECTRICAL PROPERTIES	
*Resistance to Ground: ASTM D-257	10^9 ohms
Volume Resistivity: ASTM D-257	10^8 ohms - cm
**Static Decay Time: MIL B 81705-C	Less than 0.10 sec.

* Direct resistance reading to ground point on 36 inch diagonal, measured in 2 inch increments using Dr. Kamphausen Mili-to precision Ohm meter at 500 volts.

** The electro-static decay criterion as outlined in MIL B 81705C, and specified in EIA, IS-5 when tested in accordance with FTS 101C method 4046.1 5000 volts to technical 0 volts with 2.0 seconds maximum. The information contained above is generally representative of the product.

THREE LAYER LEGMAT

Electrical Properties

Rtg	10 Volts	1.9 x 10^6 ohms
Rtt	10 Volts	2.3 x 10^6 ohms
Rtg	100 Volts	1.6 x 10^6 ohms
Rtt	100 Volts	2.1 x 10^6 ohms

Physical Properties

Gage:	.125 in.
Tensile:	360 PSI
Elongation:	>125%

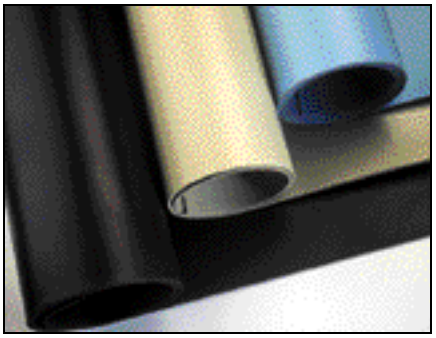
Flame Resistance

Methanamine Tablet Test:	<0.5 in.

LEGMAT 1/8" STATIC DISSIPATIVE WORK SURFACE & FLOOR MATTING

LEGMAT is a homogeneous product–not composed of laminated composites. This quality assures you of quick, safe, static dissipation with no chance of capacitance surge.

The combination of both LEGMAT floor mats and work surface mats provides you with the ultimate protection for your components and equipment. They dissipate damaging electrostatic charge from the human body.



1/8" Static Dissapative LEGMAT

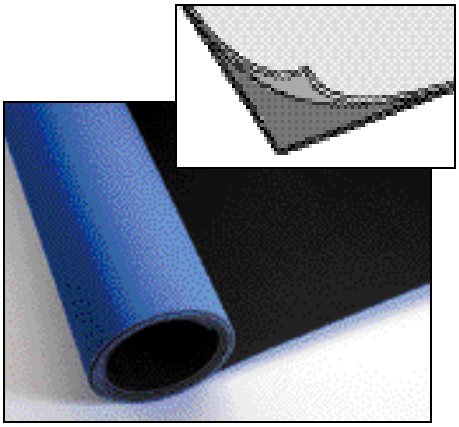
Features:

- Permanently Static Dissipative
- Eliminates capacitance surge
- Electrical properties are virtually unaffected by changes in humidity
- Superior heat and flame resistance
- Durable and flexible
- Lays flat

Designer Colors Available:

ITEM: **#3010** - Electronic Blue
#3011 - Designer Ivory
#3012 - Midnight Brown

Sizes Available: 2' x 100', 3' x 100', 4' x 100'



Two Layer LEGMAT

TWO LAYER LEGMAT

ITEM #3101

Floor and Table Matting

One side is Static Dissipative, and the other is Conductive. Chemical & Solder Resistant LEGGE's TWO LAYER LEGMAT is a unique design that combines the durability of rubber with the resistance to solder and chemicals required in the demanding environments of today's manufacturing facilities.

TWO LAYER LEGMAT provides excellent static dissipation properties that exceed both EOS/ESD and DOD requirements.

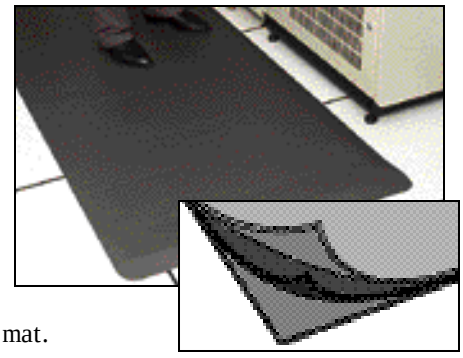
Sizes Available: 2' x 75', 4' x 75'

THREE LAYER LEGMAT

ITEM #3610 - 3 Layer

Vinyl matting consisting of a solid static dissipative, vinyl skin and a buried conductive layer. The buried layer provides excellent conductivity without the danger of exposed conductors. Provides constant resistance to ground from any position on the mat.

Sizes Available: 2' x 75', 4' x 75'



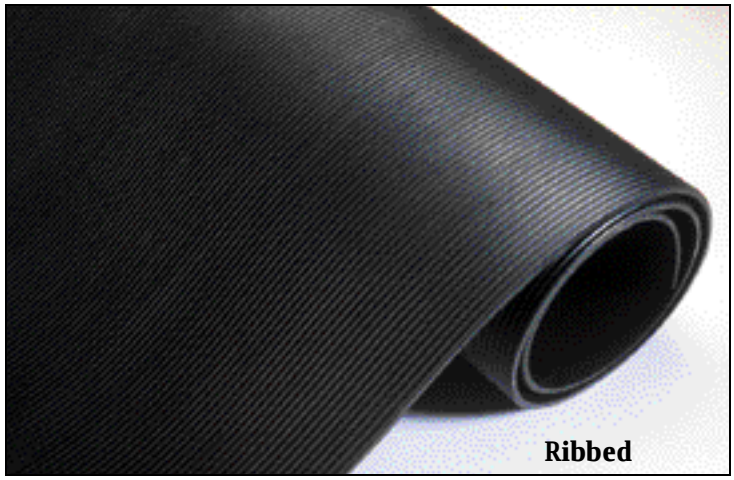
Three Layer LEGMAT

All mats are available cut to any length.

CONDUCTIVE FLOOR RUNNERS AND TABLE MATS

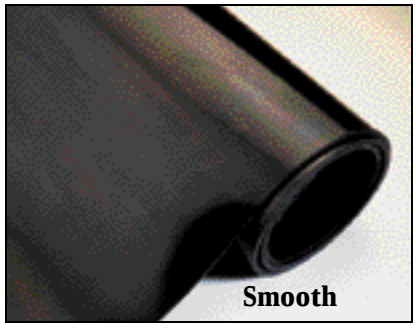
RIBBED ITEM #3000

SMOOTH ITEM #3003/3004


Ribbed

LEGGE CONDUCTIVE RUNNERS and MATS are made to be used in areas where harsh chemicals and solvents would tend to attack flooring. The inherent solvent resistance of our rubber make them virtually indestructible!

Mats are available in full rolls and precut sizes. The runners may be permanently affixed with glue or they can lay on the floor or table without glue so that they may be moved from place to place. Unlike vinyl type mats the LEGGE mat will lie flat and does not become a tripping hazard. In the interest of safety however — some form of clamp or screw may be required if the mat is placed on a slippery surface.


Smooth

All personnel standing on runners or mats must be wearing body grounding devices to dissipate body static charges. Please refer to body grounding devices located on page 15 - 18. The mats will drain all static from conductors as well as from itself.

Conductive floor runners used within a complete system of static control have reduced failures on sensitive items as well as safeguarded against explosion and fire hazards due to static electricity discharge.

- Conductivity not effected by humidity or temperature
- Complies to NFPA Code 99–NFPA Method 250,000 ohms
- Surface resistivity 10^3 - 10^5
- Static decay rate less than 0.5 seconds

SPECIFICATIONS

FLOOR RUNNER

	Smooth	Ribbed
Surface:		
Thickness:	1/8" or 1/4"	1/8"
Width:	48"	36"
Roll Length:	50' (or precut)	75' (or precut)
Ohms/sq. in.:	10^3-10^5 ohms	10^3-10^5 ohms
Fillers:	Carbon	Carbon
Color:	Black	

ESD MODULAR MAT AND ESD MODULAR DRAINAGE MATTING

Type:	Grease resistant rubber compound
Resistance point to point:	1 x 10^7 Ohms
Charge decay time, 5000 Volts –10 Volts, FTMS 10 1 C, Method	< 0.01 Seconds
Durometer, Shore 00, ASTM D-2240:	50
Thickness:	1/2"
Color:	Black


Diamond Plate Anti-Fatigue Matting

Designed with beveled edges for firm, flat contact with the floor

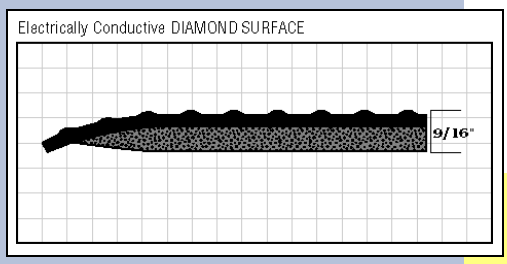
ANTI-FATIGUE MATTING

#3017 - Static Dissipative

Surface Resistivity:	Surface to surface 1×10^7 ohms
	Surface to ground 1×10^7 ohms
Size:	3' wide x 1/2" thick x 75' full roll
Color:	Gray
Surface:	Smooth and diamond plate vinyl

#3018 - Conductive

Surface Resistivity:	Surface to surface 1×10^4 ohms
	Surface to ground 1×10^4 ohms
Size:	3'x5' precut
	3' wide x 1/2" thick x 75' full roll
Color:	Black
Surface:	Smooth and diamond plate vinyl



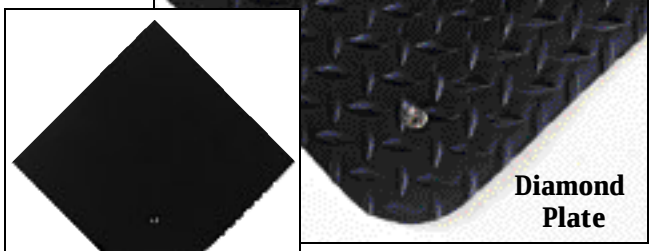
Electrically Conductive Diamond Surface

STATIC DISSIPATIVE AND CONDUCTIVE ANTI-FATIGUE MATTING

ITEM #3017 (Static Dissipative)
ITEM #3018 (Conductive)

Prevents fatigue while protecting components and personnel from damaging electric shock. Use in areas where static discharge can harm materials (static dissipative) or ignite flammable/ explosive materials (conductive). Sponge base reduces stress on spine and lower back muscles caused by standing in one place for extended periods of time.

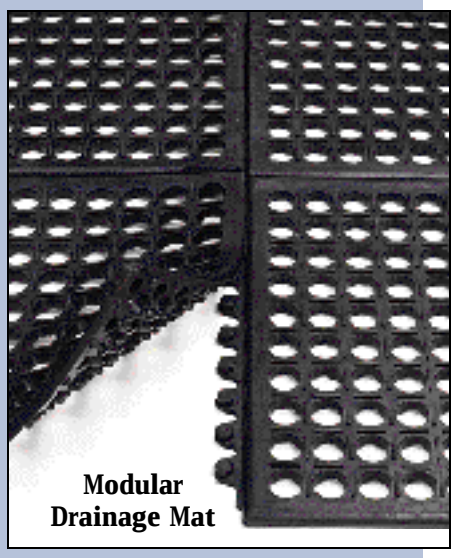
Sponge base reduces stress on spine and back



Available cut to any length with a 3' width

ESD MODULAR MATS

ITEM #3097 (Modular Drainage)
ITEM #3098 (Modular)



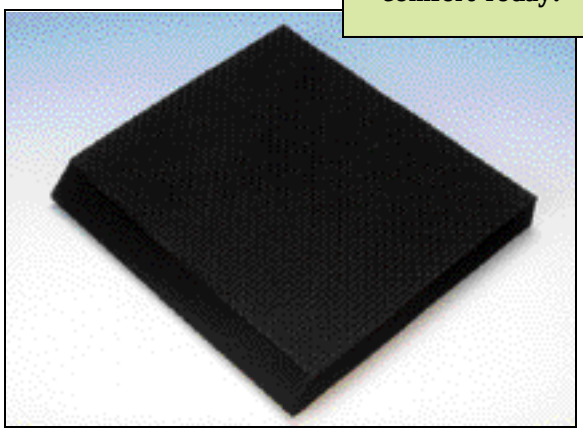
Innovative, Modular Drainage ESD Anti-fatigue Matting. Use in areas where static discharge and slippery/ wet floors are a problem. Use as a single workstation mat or cover an entire floor. Extremely versatile. Designed to greatly reduce loss from static discharge. The proprietary built-in interlocking system requires no connectors or additional bevels and allows the mat to be interlocked vertically or horizontally. Manufactured for comfort and functionality, Modular Drainage design will greatly reduce problems associated with slippery conditions as well as reduce ESD dangers. Rounded corners for easy access.

ANTI-FATIGUE CONDUCTIVE MATTING

ITEM # AFM366658 - size 36" x 66" x 5/8"

ITEM # AFM333658 - size 33" x 66" x 5/8"

Stand in Total Comfort Today!



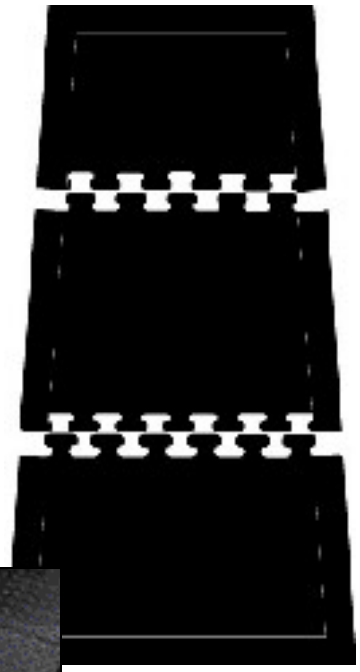
The anti-fatigue conductive mat was designed for protection against Electrostatic Discharge (ESD). The sponge rubber mat is conductive for rapid static discharge to ground. Resistance readings are well within the specifications called out in DOD and NFPA specifications. The closed cell nitrile material presents excellent resistance to abrasion, oil, grease, and most common solvents. These anti-fatigue mats are scientifically and ergonomically designed to reduce strain from standing on hard surfaces and provide proper orthopedic comfort. Use this high quality mat in harsh work environments where proper static elimination is critical.

Available in black. Two stock sizes with a standard 45° bevel to prevent tripping. Also available as a runner in 3' widths.

CONDUCTIVE INTERLOCK MAT

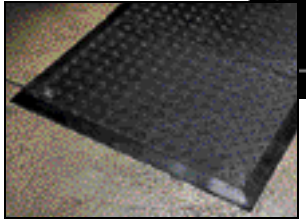
ITEM #3025

A reliable and economical protection from static discharge.



These mats offer exceptional resistivity: Surface-to-surface — 10^4 ohm and surface-to-ground — 10^4 ohm. Specially compounded 1/2" thick rubber is electrically conductive throughout the mats, which are engineered with buoyant air pockets underneath to create a very comfortable work surface. This construction greatly reduces fatigue and other aches and pains related to standing. The sections easily "lock" together to create runners of virtually any size.

The mats are also available in singles for individual workstations and are economically priced. The high-tech deck plate surface is easy to clean yet provides additional traction. Its edges are beveled for safe, easy access.



Color: Black

Stock Sizes:
3' width x 2' length
Ends, Singles, Centers

SPECIFICATIONS

ANTI-FATIGUE CONDUCTIVE MATTING

Type:	ESD Sponge anti-fatigue floor mat
Resistance point to point bottom layer, same:	5 x 10^5 Ohms
Charge decay time, 5000 Volts –10 Volts, FTMS10 1 C, Method	< 0.01 Seconds
Durometer, Shore 00, ASTM D-2240	50
Burn Test, UL94 HBF	Passed Extinguished in 10 sec., burned 1/4"
Thickness:	5/8"
Color:	Black

CONDUCTIVE INTERLOCK MAT

Surface Resisitivity:
Surface to Surface – 1 x 10^4 ohms
Surface to Ground – 1 x 10^4 ohms

Size:	Stock size is 3' X 2' Ends, Singles, Centers
Color:	Black
Surface:	Deck Plate

On Facing Page

FIELD SERVICE KIT

Electrically Conductive Antibacterial Fabric Properties Test Method Results

Face:	1.0 x 10^7 Ohms (NFPA): #56A-73 Para 4631
Back:	3 x 10^3
Bacterial, Fungal, and Mildew Resistance:	Excellent
Primary Skin Irritation Index:	0 Draize Dermal Toxicity
Weight:	10.00 oz. per sq. yd.
Flame Resistance:	1.5 sec. after flame & glow time
Char Length:	5.3 in.
Breaking Strength:	85 lbs./1 in. 5100
Tear Resistance:	30 lbs 5134 & HTM 4.2.3
Abrasion Resistance:	3.8 5304,5201 & HTM 4.2.2

- Two months accelerated aging @ 160
- Five days immersion in #30 motor oil
- Fifteen minutes immersion in ethyl ether
- Low humidity (desiccated) - 4 week exposure
- Washing with 2% soap solution - 24 cycles
- Exposure to 24 common antiseptics
- Autoclaving
- Series of flex tests

Dimensions: 24" x 24"

SPECIFICATIONS

LEGTOP DECORATIVE STATIC DISSIPATIVE LAMINATE

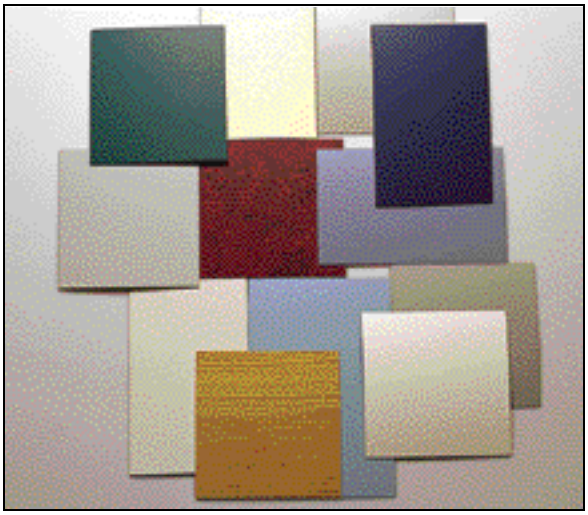
Surface Resistivity:	Typical
ASTM D257	10^3 - 10^5
Resistance to Ground Ohms:	NFPA-99 10^3 – 10^5
Decay Rate:	5000 to 0 Volts – .5 sec. (Fed Test Method 101C-4046 0.01)
Wear Resistance:	(NEMA1d-3-1985) Legtop Conventional Typical Nema Value 1550 Cycles Typical Rate of Wear 600 Cycles
(Weight loss per 100 Cycles Abrasion):	.006 gm/100 cycles
Thickness:	.032 post formed or .050
Formability:	Postformable within 1/2" to 3/4" radius depending on equipment and humidity
Sizes:	4'x10'; 3'x10'; 5'x10'; 4'x12'; 3'x12', 5'x12'
Chemical Resistance:	Resistant to common solvents such as: Acetone; 111 Trichloroethylene; Solder Flux; Isopropyl Alcohol; Naphtha
Temperature Resistance:	350° F with no change per NEMA LD-3.08. Molten solder will not mar surface
Color:	Soft White, Beige, Blue, Grey

*Laminate must be grounded to be effective, assembled structure must be tested for continuity to ground to ensure functionality. One (1) megohm current limiting resistor must be installed in series with the ground to provide personnel protection.

Field Service Kit

LEGTOP DECORATIVE STATIC DISSIPATIVE LAMINATE

LEGTOP is a hard laminate manufactured with the electronics and clean room industries in mind. This high pressure laminate is designed to provide extraordinary resistance to sliding abrasion, with extreme hardness and extended durability — typical requirements of work surfaces in the electronic industries.



The unusual hardness of the LEGTOP surface, eliminates the possibility of contamination in a clean room environment. The prevention of loose particle generation during sliding abrasion is a fundamental requirement in the clean room environment — LEGTOP meets this requirement.

LEGTOP, properly installed, will provide a controlled path to ground, with rapid and effective dissipation of electrical charges without voltage suppression.

FIELD SERVICE KIT

ITEM #FSK-1

The LEGGE FIELD SERVICE KIT (FSK) permits field technicians to perform repairs on a static free surface. The FSK prevents and dissipates static charges that are potentially harmful to sensitive components. The black side of the FSK is conductive, while the green side is static dissipative. This design allows the charges to effectively drain off the static dissipative surface to the conductive side and then to ground through the included ground strap. A common ground point is provided so that the technician can connect a Wriststrap (included) to the FSK. This arrangement ensures that the surfaces and the technician are at the same electrical potential — further minimizing potential damage to sensitive components. Very durable and made to be folded and transported from one location to another. The material meets all conductivity and static decay specifications of MIL-B81705B and NFPA #56A.

IMPORTANT INSTRUCTIONS FOR ALL MATTING

- All LEGGE Static Dissipative and Conductive Mats and work surfaces should always be cleaned regularly with LEGGE CONDUCTIVE CLEANER only (see page 9) to avoid soil and debris buildup.
- LEGMAT should be connected to suitable ground for maximum effectiveness. Workers should use one meg ohm resistor type WRISTAT (see pages 12 to 14) or LEG STRAP (see pages 15 to 18).
- Common household and commercial cleaners should be avoided due to the possibility of build-up on the surface of the matting. This build-up may insulate the matting and reduce the ability to discharge static electricity.

CONDUCTIVE FOOTWEAR TESTER

ITEM #SLTM-1

Checks Conductive Footwear Automatically

Item #SLTM-1 Conductive Footwear Tester automatically and accurately measures the exact amount of resistance in conductive footwear and body grounding devices, ensuring a static control environment.

Our Item #SLTM-1 is a quality electronic instrument, precisely built with heavy duty polished aluminum foot plates and designed to give years of dependable service. It is ideal for dangerous, potentially explosive areas or areas in the electronic industry where static can destroy sensitive components.

Stand on the foot plates and the unit's direct-reading dial with graduated, color-coded scale indicates the exact amount of resistance.

Shipped complete and ready to operate, it has 8 feet of 18-3 type SJ power cord that plugs into any grounded 120 volt AC power source. Also available in 220 volt and battery operated. This unit measures 17 x 12 inches and weighs less than 6 1/2 lbs. All conductive footwear and body grounding devices, such as LEGSTATS, must be worn in pairs.

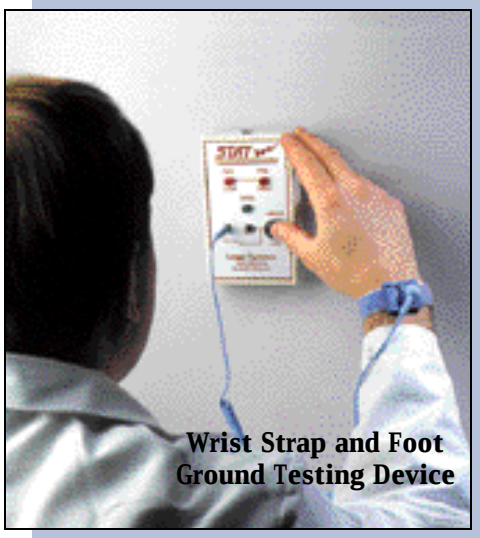
Conductive Footware Tester

SLTM-220V

Same quality construction as the SLTM-1, but in 220V power supply. Plugs into any 220V outlet with proper plug.

SLTM-4145.26

Available to meet DOD standards. Upper limit set at 1 Meg Ohm in accordance with DOD HDBK 4145.26.



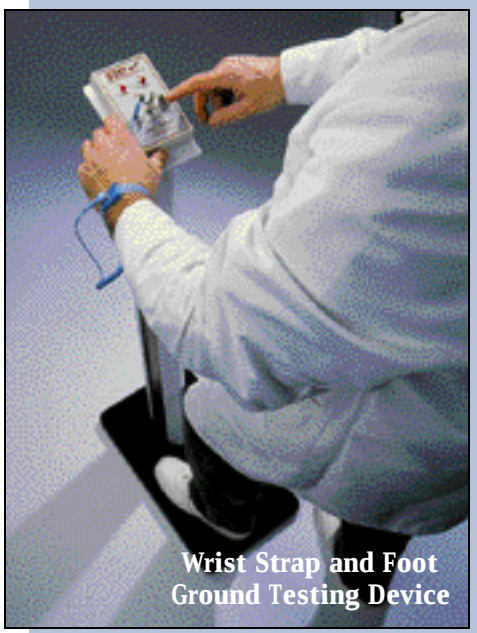
Wrist Strap and Foot Ground Testing Device

Wrist Strap and Foot Ground Testing Device

ITEM #WSLS-S

The LEGGE Model WSLS-S Series Wrist Strap and Leg Strap Tester is designed for the verification of personnel grounding devices under actual wearing conditions. The base of the WSLS-S has a conductive mat for footwear or leg ground testing. The WSLS-S can be conveniently placed so workers can check ground straps without interrupting their normal work day. The WSLS-S is supplied with a long-life 9-volt battery and 120/9V AC adapter.

- **High resistance warning buzzer and red LED to indicate high resistance or poor contact with personnel**
- **Low resistance warning buzzer and red LED to indicate unsafe resistance**
- **"Good" green LED to indicate safe and adequate static dissipation to ground**
- **Easily calibrated and traceable to National Bureau of Standards**



Wrist Strap and Foot Ground Testing Device

SPECIFICATIONS

WRISTAT® TESTER

ITEM #WT25

WT25 Wristat Tester

The LEGGE Item WT25 WRISTAT Tester is designed to test the integrity of our WRISTAT in a fast, efficient and simple manner. All of the elements of the WRISTAT — continuity of the strap, integrity of the protective resistor, and satisfactory strap to skin contact — easily confirmed by pressing the top cover of the WT25. The operator (wearer) is tested for a resistance to ground of greater than 750K ohms and less than 10M or switchable to 100M ohms. The upper limit notifies you of an unacceptably high resistance value (ie: possible loss of effective dissipation) and the lower limit warns of unsafe low resistance (possible risk of electric shock from surrounding motors, live wires, etc.)

CONTINUOUS MONITOR

Operating Limits:	500 kilohms - 35 megohms
Work Surface Limit:	5 x 10^8 ohms (LG1016)
Response Time:	50mS
Long Term Drift:	3% in 50 years
Temp:	10°C to 40°C

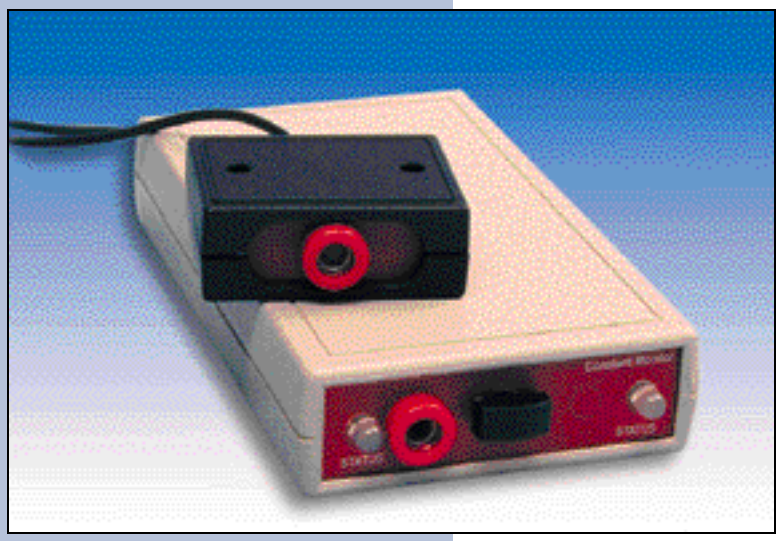
WT-25 – 4145.26

WT-25 – 4145.26 is available to comply with DOD HDBK 4145.26. The lower limit is set at 250K and the upper limit is set at 1 MEG (switchable to 10 MEG). Tests are performed in the same manner as the WT25.

WORKSTATION DUAL CONTINUOUS MONITOR

ITEM #LG1016

Continually monitors two operators and workstation to ensure proper path to ground and static dissipation. Monitors work surface for proper ground. Monitors two single wire WRISTATS. Cleanroom compatible. No field adjustments necessary. Auto-switch activation (in banana jack). Fast response — detects intermittent connections. Three pairs of red and green audible alarm. Computer output signal. Convenient mounting bracket available. Traceable to NIST standards.



Workstation/Dual Continuous Monitor

SPECIFICATIONS

CONDUCTIVITY TESTER

(500 Volt) Meets NFPA Code

ITEM #LA-1

Easy-to-use meter developed for accurately testing the conductivity of floors and equipment. The LA-1 must be used regularly to monitor proper conductivity with NFPA Code #99. Regular use of the LA-1 will establish and maintain procedures for the proper maintenance of conductive floors, eliminate fire hazards, and ensures a static free environment.

- **Available with AC power supply or hand crank**
- **Compact, lightweight and portable**
- **Simple to use**
- **Direct-reading dial with color-coded scale**
- **Various meter scales to choose from**

The LA-1 uses 500V DC to test the resistance (in ohms) between two points (NFPA Code #99).

The meter comes ready to use (tin foil must be applied to bottom of weights). Simply follow the instructions for use and instantly obtain an accurate measurement.

LA-1 Conductivity Tester and LA-1 220V

(On Facing Page)

STATIC LOCATOR

Voltage Ranges:	X1: 0 to ±500 volts X10: 0 to ±5000 volts
Range Selection:	Two position switch
Readouts:	Voltage: Analog meter with center 0 Tricolor scale with 10 divisions for each polarity Range: X1 - Green LED X10 - Red LED
Battery/Life:	Standard 9V/one year
Case Material:	ABS plastic with conductive coating
Size:	3.75" l. x 2.25" w. x 1" d.
Weight:	5 oz.

LA-1 – HC (not pictured)

Hand crank operated 500V megger also available. The LA-1 is also available in various voltages and ranges, including 100V.

LA-1 – 220V (not pictured)

500V (or specified voltage output) operating with 220V AC power supply. See LA-1 description for additional features.

CONDUCTIVITY TESTER – 100V

ITEM #LA-3123

The battery operated tester performs a variety of conductivity tests. The easy to use tester is highly accurate with clear readout. Simply connect the probes to the object under test and press button switch. Also test AC Voltage of any circuit by connecting probes and reading AC voltage on scale. Built in battery check gives instant confirmation of battery strength. In normal operation the LA-3123 will not need to be calibrated. If the user desires to test calibration of instrument, a suitable resistor with less than 5% deviation may be applied across terminals to verify accuracy of calibration.

Recommended instrument operating position is horizontal, DO NOT USE in external magnetic field exceeding 400 A/m.

LA-3123

ITEM #LAD-3123 (not pictured)

Same features as LA-3123 with the addition of a digital readout.

Combined ResistanceTemp/Humidity Meter

COMBINED RESISTANCE/TEMP/HUMIDITY TESTER

ITEM #OHMSTAT 262

NEW

The only meter designed to test the three most important components involved in static electricity control. Quickly and reliable measures surface resistance, temperature and humidity. Comes complete with carrying case, two five-pound weights and battery. Output voltage is switchable between 10 and 100 volts — making the OHMSTAT 262 very versatile in meeting EOS/ESD specifications.

FEATURES —

- Easy-to-Use Push Button Design
- Portable — Battery Operated
- Accurate and Easy-to-Read Digital Readout
- Five Pound Electrodes Included — Complies with NFPA Code 99

Surface Resistivity Meter – #262

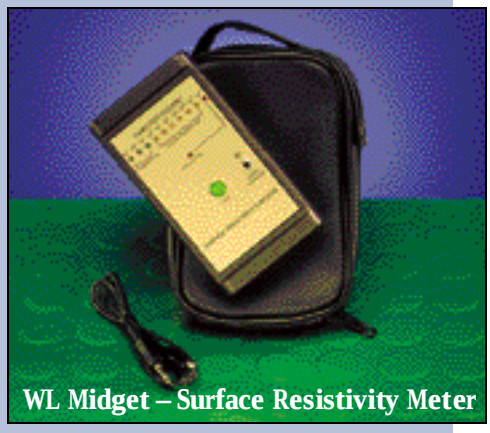
SURFACE RESISTIVITY METER

ITEM #262

LEGGE's 262 Surface Resisitivity Meter is a simple to use, highly repeatable measuring device, for determining the surface resistivity of materials. The 262 incorporates a revolutionary 3-point probe measuring technique, enabling accurate, consistent and repeatable surface resistivity measurements. Provided with fully rechargeable nickel cadmium battery installed.

FEATURES —

- Easy to Use: No cables or probes to adjust
- Portable: Rechargable battery powered
- Wide range of direct LED readings in Ohms
- Designed to widely accepted ASTM-D257 standards



WL Midget – Surface Resistivity Meter

WL MIDGET – SURFACE RESISTIVITY METER

ITEM #WL Midget

The WL MIDGET pocket surface resistivity meter is designed for optimum portability. This tester may be used for spot testing as well as quality control and routine auditing of ESD surfaces. The WL MIDGET is perfect for fast measurements of static dissipative and conductive surfaces. Measurements indicate decade resistance instantly and may be used to determine if additional testing is required. Nine-volt battery operated for convenience.

- **Resistance range: 10^3-10^{12} ohms**
- **Insulator indication**
- **Powered by PP3 9 volt battery**
- **ASTM recommended parallel bar sensing**
- **Resistance to ground using lead provided**
- **Complete with PVC carrying case**

Static Locator

STATIC LOCATOR

ITEM #300B

Measures the magnitude and polarity of electrostatic fields instantly, reliably and economically. The ultra compact unit features the latest integrated circuit technology to locate and measure, by induction, electrostatic fields. The unit features one button operation and switches between ranges of ± 500 volts and ± 5000 volts when the meter is held 2" from a charged surface.

ITEM #300D: Available in easy to read digital readout for even more accurate measurements.

ALOE-STAT®

ITEM #8062

Conductive Skin Lotion

ALOE-STAT is a **conductive** skin treatment lotion, containing all the skin conditioning properties of natural aloe. The aloe plant is known for its unsurpassed quality as a skin conditioner, promoting healthy, silk like skin. It eliminates dryness and improves conductivity during contact with wrist straps. LEGGE uses no chemical additives to alter the natural properties of the aloe plant.

ALOE-STAT contains no oils, glycols, glycerin sterates, alcohols, amines or fragrances. These additives can irritate the skin and block the conductivity of the skin.

PH of this lotion was adjusted to the average pH of human skin. ALOE-STAT **conductive** lotion is formulated with a high content of aloe plant extract that is absorbed by the skin very rapidly and provides long lasting conductivity. There is no residue left on the skin, eliminating slippery and greasy hands. It is very cost effective, since only about half of the amount is needed for skin treatment, compared to other lotions on the market.

Available in 1oz., 4 oz., 16 oz., 32oz. and 1 gallon containers

LAB COATS

ITEM #M62CSN

High quality, static dissipative lab coats for static sensitive areas.

Lab coats are available in Royal Blue, Petrol Blue and White. Custom designs and sizes from XS to 5XL are also available.

SPECIFICATIONS

ALOE-STAT®

Appearance:	Colorless*
pH:	6.2- 6.5
Odor:	Pleasant natural aloe plant scent
Boiling Point:	2120 F
Conductivity:	10^9 ohms (when dry on non-conductive surface)
Viscosity:	1640 CPS (Brookfield Spindle #3 @ 20 RPM)
Flammability:	Non-flammable
Skin Absorption:	Rapid and complete
Oily Residue:	None
Solvents:	None

*Possible slight color change is typical of natural plant extract.
Color change does not effect the performance of the product.

LAB COAT

Content:	97.4% polyester 2.6% carbon suffused nylon
Type:	5 oz. texturized polyester
Warp:	Knit constructed for maximum comfort and durability
Surface Resistivity:	2.0×10^5 ohms front 5.0×10^5 ohms back
Decay:	5000 volts to 0 in less than 1 second
Durability:	No significant change with repeated washes
Non-linting:	No steel or cotton fibers

Washable, Durable and Comfortable

CONDUCTIVE CUSHION INSOLES

ITEM #CCI

Designed to fit ESD Type I and II and Conductive Type I footwear — boots, athletic shoes, even dress shoes — they deliver comfort and performance for anyone who spends time on their feet. Lightweight, durable RUBATEX® Conductive Rubber and covered with metalized polyester fabric. Conforms to ANSI Z41 Standard for Protective Footwear, 3/32" thick for steel toe footwear. Insole material reads 300-500 ohms at 50 volts DC and 100-300 ohms at 10 volts DC.

CONDUCTIVE RUBBER BOOTS

ITEM #1028

Protective CONDUCTIVE RUBBER BOOTS to be worn directly over socks in static sensitive areas. Especially recommended for industrial spray paint booths and any static sensitive area.

The CRB #1028 is waterproof, solvent and chemical resistant. Is designed with non-slip conductive sole and steel toe. Steel toe cap exceeds ANSI safety standards.

Available in black with green trim and labelled conductive.

Meets and exceeds Mil B-81705B, EIA-IS-5A ASTM-D257-78 for conductivity and decay rate.

CONDUCTIVE RUBBER BOOT

Description:	Conductive pac
Lining:	Cotton duck
Upper:	Rubber
Size Range:	4-15 (men's whole sizes)
Outsole:	Non-slip conductive
Color:	Black with green trim
Conductivity:	Typical 0-500,000 ohms
Height:	12"
Toe:	Steel toe cap
Z41.1-1983:	175 C75
Weight:	4.2 lbs. per pair
Shank:	Steel

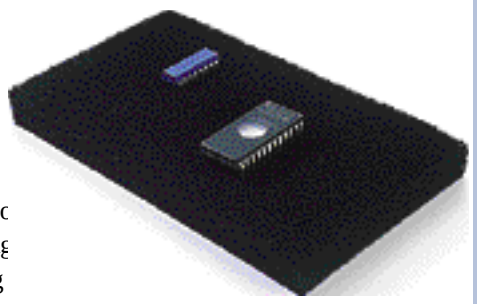
CONDUCTIVE AND STATIC DISSIPATIVE FOOTWARE

We offer a full line of footwear for static control applications. High quality footwear is comfortable and offers complete protection against static generation. Steel toe and soft toe shoes and boots are available.

Please call our toll free number: 877-885-7527 for more information.

Conductive & Static Dissipative Footware

CONDUCTIVE FOAM



ITEM #CFC, ITEM #CFSR

Use as a protective media for in-plant handling and external shipping of static sensitive devices. Two types are commonly used. CFC Cushioning is used where delicate components may be subject tc shaking or rough handling during transit. The spong material withstands physical abuse while providing packaging. Completely non-corrosive.

CFSR foam is used for shunting the leads of integrated circuits. Equalizes potential between leads and other ICs to prevent static damage. Completely non-corrosive.

Call for a quote with quantity and size or see our price list.

ESD AWARENESS LABELS

LEGGE offers a peel-off ESD Awareness label for use on ESD shielding bags, boxes or any other container that needs to be marked with the proper ESD symbol.

ZIPTOP BAGS

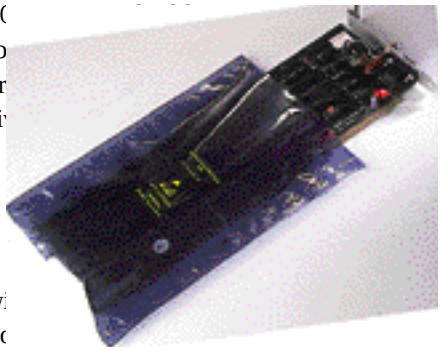
ZIPTOP™ Static Shielding Bag

Reliable and competitively priced static sheilding bag for the electronics industry. Over 100 stock sizes for fast shipment. ZIPTOP STATIC SHIELDING BAGS are tested to meet or exceed the electrical and physical requirements of MIL-B-81705C Type III, EIA 541, EIA 625, MIL-HDBK 263, MIL-STD-1686 and EOS/ESD Standards.

Please call for a quote with quantity or size.

TRANSPARENT STATIC SHIELDING BAGS

ITEM #ESDBAGS



Static sensitive components must be protected from ESD while in storage, shipping, assembly and handling operations. LEGG bags ensure a controlled, non-destructive path to independent of environmental factors. Bag constr consists of a 48-gauge polyester, static dissipati lining and an aluminum shielding layer meets applicable test methods for static decay. Surface resistivity and dielectric strength and shielding effectiveness.

Most sizes are available. Please call for a quote wi quantity and size (inside bag dimensions) or see c price list.

SPECIFICATIONS

ZIPTOP SHIELDING BAGS

ELECTRICAL PROPERTIES

Surface Resistivity:	ASTM D257, EIA 541
Interior:	10^9 - 10^{10} ohms/sq.
Metal:	100 ohms
Exterior:	10^9 - 10^{10} ohms/sq.
Static Shielding:	< 30 volts (MIL-B-81705C, EIA 541)
Static Shielding:	< 10 nJ EOS/ESD S11.31
Static Decay:	< 0.05 seconds (MIL-B-81705C, FTMS 101 MTH 4046)
Charge Generation:	
Teflon:	0.09 nC/sq. in. Modified inclined plane
Quartz:	0.01 nC/sq. in.

PHYSICAL PROPERTIES

Tensile Strength:	> 25 lb (ASTM D 882)
Seam Strength:	Pass (MIL-B-81705C)
Light Transmission:	40% (Tobias)
Heat Sealing Conditions:	
Temperature:	250° F - 375° F
Time:	0.5 - 3.5 seconds
Pressure:	30 - 70 PSI
Thickness:	3.1 mils (SCC 008)
Outgassing:	Pass (ASTM E595)
Non-Corrosive:	Pass (FTMS 101 MTH 3005)

Need Help?

Need help with application requirements or have questions about technical specifications? Call and ask for one of our expert customer service representatives. They are standing by to help you.

ORDER FORM

PLEASE PRINT OR TYPE

BILL TO:	SHIP TO:
P.O. #:	P.O. #:
	ATTN:
PHONE #: FAX #:	PHONE #: FAX #:

DATE	SHIP VIA	FOB	BUYER	ACCOUNT #	TAX ID
		Peekskill, NY			

QTY	ITEM	UNITS	DESCRIPTION	UNIT PRICE	TOTAL

TERMS AND CONDITONS:

- First time orders will ship c.o.d. or credit card.
- Approved credit references are needed to establish open account billing.
- Rush orders (same day) — add $10.00 processing fee.
- F.O.B. shipping point: Peekskill, NY.
- Net 30 days with approved credit.

METHOD OF PAYMENT:

❑ I have enclosed a check.

❑ Please bill to my account # _____

❑ C.O.D.

❑ Credit Card ❑ VISA ❑ MC ❑ AMEX

Credit Card # _____ Exp. Date _____

Full Name on Card _____

Signature _____

Subtotal:	
TAX Y ❑ N ❑ ____%	
COUNTY _____	
FREIGHT _____	
BALANCE DUE:	

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STATIC CONTROL BASICS

Static electricity is readily identified in everyday life such as getting a shock from the metal portion of a vehicle after sliding across fabric seats or touching a door knob after walking across a carpet. These ELECTROSTATIC DISCHARGES (ESD) occur because objects (your feet and the carpet) have been separated. Atoms near the surfaces of separation will transfer electrons to one another and as a result will either have a surplus of electrons, referred to as a negative charge or a deficiency in electrons, referred to as a positive charge. In addition, rubbing or sliding materials together will increase the amount of charge because a greater number of electrons will come in contact at the surface of the material. In this manner objects are commonly charged to 30,000 volts by walking or transferring materials along an assembly line.

TYPES OF MATERIALS

The basic types of materials are conductors and insulators. All materials fall within these categories. Insulators do not transfer electrons while conductors freely transfer electrons. However, both types of materials may hold a static charge. When a conductor is charged with surplus electrons it readily discharges when it comes close to another conductor with a different electrical potential. ESD is the spark we feel when we touch the car door after sliding across the fabric seat. The threshold of voltage that a person can feel is generally recognized as 3,000 volts although the voltages that can damage today's sensitive electronics is much lower.

ESD is not a new phenomenon. In the past, any process which involved separation of materials caused static charges. Only until relatively recently has it been anything more than a nuisance for the electronics industry. Both the flammable gas/solvent and explosives industries have been using LEGGE products for over 60 years to control potentially hazardous static discharges. The changing microelectronic industry has made ESD a special problem. As devices get smaller and more circuits are packed in modern microchips they have also become more susceptible to damage by ESD. Some devices may be damaged by a charge as low as 30 volts.

HOW LEGGE CAN HELP YOU

Control static electricity and prevent ELECTROSTATIC DISCHARGE from degrading your electronic devices or preventing fires or explosions. We manufacture a full line of static control products and can provide professional recommendations for your specific requirements.

EQUAL POTENTIAL

This will eliminate most problems with ESD. It involves grounding conductors and making non-conductors static dissipative and grounding them as well. The most common form of grounding involves the human body, which is a conductor, but is normally isolated from ground by clothing, shoes, etc.

Wrist Straps and Foot Grounders, when used properly, drain static electricity to ground as it occurs preventing static build-up and the associated spark or ESD event from occurring. A person may be grounded with a wrist strap connected to ground or with a common point ground. Foot grounders will create a path to ground when worn on conductive or static dissipative surfaces.

Conductive and Static Dissipative Coatings will allow objects that are normally insulators to be made conductive (or static dissipative). Coating normal flooring and work surfaces also facilitates the grounding of these surfaces. (NOTE: It is generally accepted within the static control industry that conductive means within a range from 10^{1} - 10^{6} ohms. Static dissipative means 10^{7} - 10^{11} ohms. Any reading above 10^{12} ohms is referred to as an insulator and will not dissipate electricity). Generally, industries involving explosives or flammable solvents utilize conductive surfaces and items while the electronics industry employs static dissipative items and surfaces. Once flooring and work surfaces have been made conductive or static dissipative, a person may be grounded using foot grounders and connecting to ground via the conductive floor.

Sprays (or Topical Antistats), may be used to control static electricity and dust accumulation in localized areas for shorter periods of time. Static dissipative floor finishes may also be used on vinyl and other types of flooring, providing high gloss, cleanliness and static protection.

STATIC
CONTROL

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