



# DESCO



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on our web site:  
[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## Desco ESD Control Products

INTRODUCTION

### Made in America

Use Desco ESD protective products and Desco services to optimize your ESD control program. Turn ESD control into a competitive advantage improving quality, productivity, and customer satisfaction. We manufacture most Desco products in one of our six manufacturing plants in the United States. See live web cam of Desco products being manufactured in America and the United Kingdom by going online to [DescoIndustries.com/Factories](http://DescoIndustries.com/Factories).

### Your ESD Control Program Should Provide a Significant Financial Return

Static electricity or ElectroStatic Discharge (ESD) is the hidden enemy within your factory. You cannot feel or see most ESD events but they can cause electronic components to fail or cause mysterious and annoying problems. There are two types of ESD damage: 1) Catastrophic failures, and 2) Latent defects. By definition, normal quality control inspections are able to catch catastrophic failures, but are not able to detect latent defects.

See the ESD Association web site at [esda.org](http://esda.org): "Others estimate the actual cost of ESD damage to the electronics industry as running into the billions of dollars annually. The cost of damaged devices themselves ranges from only a few cents for a simple diode to several hundred dollars for complex hybrids. When associated costs of repair and rework, shipping, labor, and overhead are included, clearly the opportunities exist for significant improvements."

### Desco ESD Services are Available at No Charge

Let Desco assist you in meeting ANSI/ESD S20.20, for the Development of an Electrostatic Discharge Control Program. Desco sells through local distributors supported by Regional Sales Managers. In addition, Desco has over 60 factory ESD trained representatives throughout North America.

Go to [Desco.com](http://Desco.com) and contact the Desco Sales Rep responsible for your area. Request an ESD survey and/or an ESD training session. Consider using Desco for all your ESD control products and applying for our T.E.A.M. program to receive additional ongoing support.

Desco Product Managers are proud of their products and are frequently making changes to the Desco product line. The latest catalog is online at [Desco.com](http://Desco.com) with technical documentation and much more. Towards the bottom of each product's web page are links to the technical documentation, including superior limited warranties.

### At Desco, we are:

- Experts in ESD control
- Focused on ESD control
- Have the resources to assist you

Consider Desco for your ESD team and applying for the T.E.A.M. program. With improved quality, productivity and customer satisfaction, convert ESD Control from a prerequisite to a competitive advantage.

### List of ESD Protective Products or QPL

To meet ANSI/ESD S20.20, a company must have a written ESD control plan including training and compliance verification plans. The ESD Association recommends that the ESD Control "Plan should include a listing of the specific type of ESD protective materials and equipment used in the Program." (ANSI/ESD S20.20 section 6.1.1.2.) Desco's broad product line in this catalog contains most of what you will need. Use this catalog to select your list of ESD protective materials and equipment for your ESD Control Program Qualified Parts List.

### Contact us:

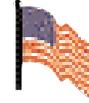
You are welcome to tour any of our facilities at:

3651 Walnut Avenue, Chino CA 91710; 13520 Monte Vista Avenue, Chino CA 91710; 324 Palm, Santa Barbara CA 93101; 73 Allen Street, Rochester NH 03867; 90 Hudson Road, Canton MA 02021; and 13937 SW 119 Ave, Miami, FL 33186.

Consider Desco a source for ESD control information; just email technical or customer service questions to [Service@Desco.com](mailto:Service@Desco.com). Call us at (909) 627-8178 at Chino, California or (781) 821-8370 at Canton, Massachusetts.

#### Products shown in this catalog are covered by one or more of the following patents:

D292,675; 2,763,834; 2,774,517; 4,150,418; 4,231,901; 4,301,040; 4,551,783; 4,577,256; 4,596,053; 4,596,668; 4,639,825; 4,649,374; 4,662,514; 4,662,695; 4,745,519; 4,755,144; 4,782,425; 4,813,459; 4,834,297; 4,859,992; 4,974,115; 5,036,423; 5,083,117; 5,191,505; 5,568,351; 5,677,822; 5,786,977; 5,951,337; 6,052,053; 6,078,875; 6,137,670; 6,205,408; 2,073,410; 620,833; 2,068,914; 1,182,979; 1,141,627; TMA271707; 1,287,078; 1,276,658; 1,192,925; 1,164,460; 2,585,119; 1,363,984; 1,467,128; 2,073,410; 2,306,043; 2,311,663; 2,418,974; 2,263,057; 2,472,654; 2,599,794; 2,663,083; 2,766,616; 2,837,880; 3,028,577; 3,192,716



### These details separate Desco from all the rest:

- We make most what we sell
- We manufacture in the USA
- Product support personnel
- Readily available technical bulletins and drawings
- Patented and trademarked products
- We sell through regional, national and international distribution
- ESD surveys and training
- Superior warranties
- Satisfaction guaranteed

### In addition, our products have these details:

- Machined stainless steel studs on wrist straps
- Patented contoured banana plugs
- Custom molded coil cords
- Soft-fold bag construction
- Hip-to-cuff grounded smocks
- Matting with lifetime electricals
- Non-humidity dependent mats and bags
- Low charging dissipative floor finish
- Dual-wire and single-wire continuous monitors
- Ionizers with removable emitter cassette - superior feedback controls

### Need details about our products?

- See Our Web Site: [www.Desco.com](http://www.Desco.com)
- E-mail Us: [Service@Desco.com](mailto:Service@Desco.com)
- Customer Service:  
909-627-8178 (Desco West) or  
781-821-8370 (Desco East)

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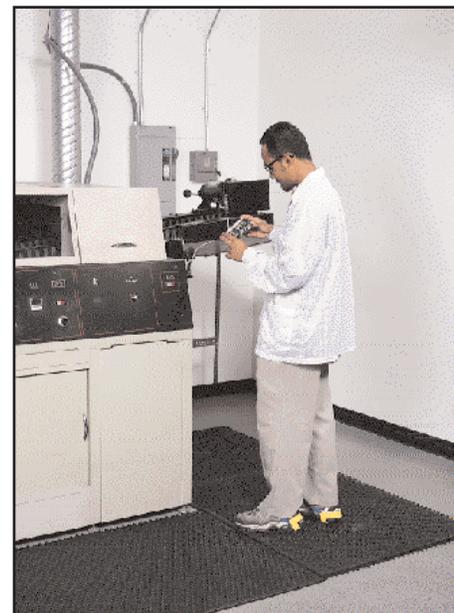
## HOW DO I MANAGE MY ESD CONTROL PLAN?

**An ESD Control Plan must be comprehensive and documented** into a protection plan that encompasses the processes, personnel, and ESD susceptible devices.

**ANSI/ESD S20.20** requires a written ESD control plan including training and compliance verification plans.

**Desco's survey program includes the following:**

- **A Written ESD Survey Report**
  - Written documentation for management of the Technical Elements of your ESD Control Plan
- **Test measurements compared to ANSI/ESD S20.20-2007 and ESD TR53**
  - Verify your ESD control products meet the ANSI/ESD S20.20-2007 industry standard
- **Implementation of ESD protective products**
  - Choose the best suited product for your ESD Control Plan
- **Verify ESD productive products are installed properly and functioning**
  - Ensure that you are getting full value out of the products you invest in
- **Where applicable, the Desco ESD Survey covers the following Technical Elements**
  - Grounding
  - Wrist straps
  - Footwear
  - Flooring
  - Signage
  - Worksurfaces - Packaging
  - Mobile equipment (carts)
  - Shelving
  - Ionizers
  - Seating
  - Continuous Monitors
  - Garments
  - Soldering iron tips / AC powered tools



**Turn your ESD Control Plan into a competitive advantage focused on:**

- **INCREASED** Quality
- **INCREASED** Productivity
- **INCREASED** Customer Satisfaction

For more information on an ESD Survey, ANSI/ESD S20.20, or other questions regarding ESD control contact us at:

Phone - 909-627-8178 • Email - [Service@Desco.com](mailto:Service@Desco.com)  
**Desco.com**



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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## Jewel® MAGSNAP® ADJUSTABLE ELASTIC WRIST STRAPS

- 09183 Elastic Wristband Only
- 09184 Elastic Wrist Strap, 6'
- 09185 Elastic Wrist Strap, 12'

- **Longer lasting, prevents wear**
- **Patented revolutionary magnetic interconnect technology** (U.S. Patent 5,004,425); creates magnetic connection between wristband and coil cord
- **Meets ANSI/ESD S1.1, including disengagement force test (1-5 lbs)**
- **Superior strain relief with lifetime guarantee; tests in excess of 1,000,000 cycles - eliminates intermittent failures**
- **Made in America**

Drawings 09183  
Technical Bulletin TB-2005



Listing #90P1



09184

## NEW Revolutionary Magnetic Interconnect Technology



Meets ANSI/ESD S20.20 including disengagement force test (1-5 lbs)

Single-Wire MagSnap® Wrist Straps and Coil Cords include 4mm steel capped parking station adapter. Adapter allows users to use new MagSnap® interconnect system with constant monitors using 4mm snap studs for parking station.



## Jewel® MAGSNAP® ADJUSTABLE METAL WRIST STRAPS

- 09195 Metal Wristband Only, Emerald
- 09196 Metal Wrist Strap, 6', Emerald
- 09197 Metal Wristband Only, Sapphire
- 09198 Metal Wrist Strap, 6', Sapphire
- 09199 Metal Wrist Strap, 12', Sapphire
- 09186 Metal Wristband Only, Onyx
- 09187 Metal Wrist Strap, 6', Onyx
- 09188 Metal Wrist Strap, 12', Onyx

- **Longer lasting, prevents wear**
- **Metal expansion wrist strap with more reliable path-to-ground**
- **Superior contact with skin is more effective for people with dry skin**
- **One size fits all - adjustment band changes quickly and easily to any size**
- **Medical grade stainless steel interior expansion band will not cause allergic skin reactions for most people**
- **Made in America**

Drawing 09186  
Technical Bulletin TB-2005

Wrist strap kits include an alligator clip (excluding right angle products).



Listing #90P1



09198

**Metal band does not pinch or pull hair!**

# NEW!



09196

## MAGSNAP® COIL CORDS

- 09180 MagSnap, 6', Snap-Banana
- 09181 MagSnap, 12', Snap-Banana
- 09182 MagSnap, 20', Snap-Banana
- 09190 MagGround, 6', Snap-Snap
- 09191 MagGround, 12', Snap-Snap
- 09192 MagGround, 20', Snap-Snap
- 09193 Adapter for MagGround®

- *To be used with MagSnap® wristbands on this page*
- *MagGround® (substitute for any standard industry banana plug) creates magnetic connection between coil cord and any ferromagnetic (contains iron) surface*
- *Made in America*

Drawings 09180 and 09190

09193 adapter available for 09190-09192 to connect magnetic ground end to standard banana jack



09193



**For detailed information on all Desco Single-Wire Wrist Straps, including our Wrist Strap Selection Chart:**

**[Desco.com/Catalog](http://Desco.com/Catalog)**

SINGLE-WIRE WRIST STRAPS



# DESCO

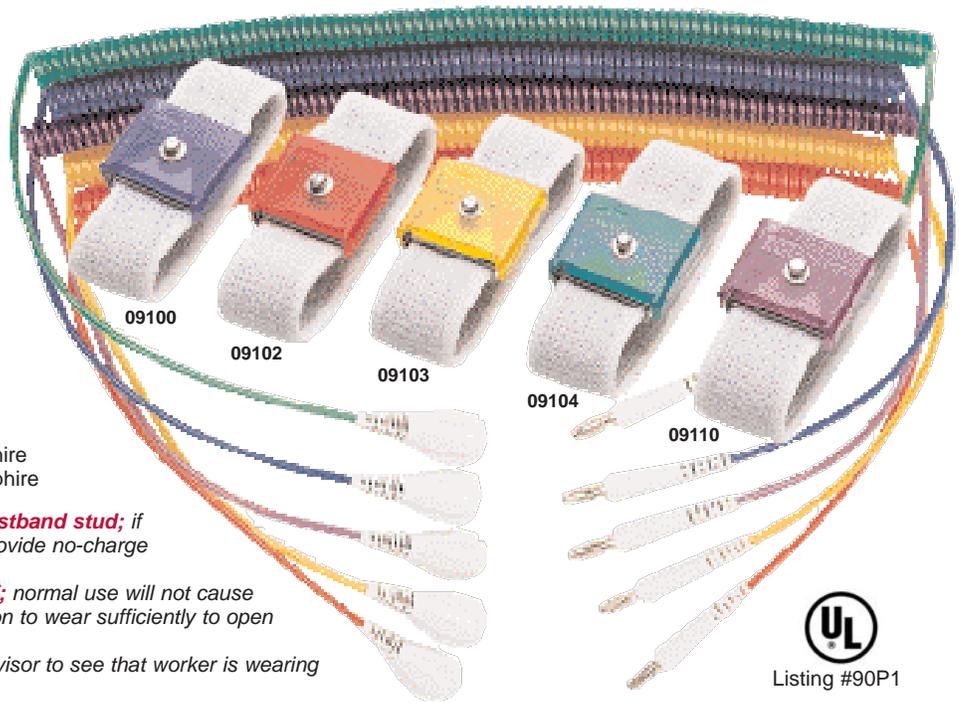


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## Jewel<sup>®</sup> ELASTIC ADJUSTABLE WRIST STRAPS

SINGLE-WIRE WRIST STRAPS

- 09100 Wrist Strap, 6' Cord, Sapphire
- 09102 Wrist Strap, 6' Cord, Ruby
- 09103 Wrist Strap, 6' Cord, Topaz
- 09104 Wrist Strap, 6' Cord, Emerald
- 09110 Wrist Strap, 6' Cord, Amethyst
- 09130 Wrist Strap, 10' Cord, Sapphire
- 09105 Wristband Only, Sapphire
- 09106 Wristband Only, Ruby
- 09107 Wristband Only, Topaz
- 09108 Wristband Only, Emerald
- 09109 Wristband Only, Amethyst
- 09140 Replacement Elastic Strip
  
- 09120 Coil Cord, 6', Sapphire
- 09122 Coil Cord, 6', Ruby
- 09124 Coil Cord, 6', Topaz
- 09126 Coil Cord, 6', Emerald
- 09128 Coil Cord, 6', Amethyst
- 09121 Coil Cord, 10', Sapphire
- 09150 Coil Cord, Right Angle, 6', Sapphire
- 09151 Coil Cord, Right Angle, 10', Sapphire



Listing #90P1

- **Limited Lifetime warranty on our wristband stud;** if damaged during normal use, we will provide no-charge replacement
- **Lifetime warranty on our strain relief;** normal use will not cause Coil Cord resistor strain relief connection to wear sufficiently to open path-to-ground circuit
- **High visibility;** bright colors allow supervisor to see that worker is wearing wrist strap
- **Patented (US Patent 5,951,337) contoured spring supported banana plug - ensures reliable path-to-ground connection expanding banana plug into socket**
- **Solid stainless steel wristband stud machined to exacting tolerances and precise profile - ensures reliable path-to-ground connection to spring loaded 4mm stainless steel constant contact coil cord snap**
- **Made in America**

Drawings 09105, 09120, 09150, Technical Bulletin TB-2005

**NOTE:** All bands on this page have a 4mm snap stud. Wrist strap kits include an alligator clip (excluding right angle products).

Right angle banana jack minimizes snagging and accidental disconnect



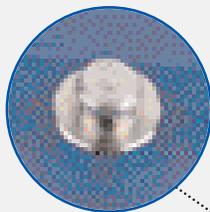
For detailed information on all Desco Single-Wire Wrist Straps, including our Wrist Strap Selection Chart:

[Desco.com/Catalog](http://Desco.com/Catalog)

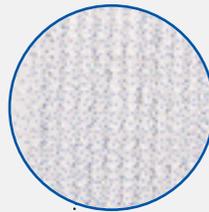
## Desco Jewel<sup>™</sup> Wrist Straps Superior Path-to-Ground

### Limited Lifetime Warranty

Solid stainless steel wrist band stud machined to exacting tolerances and precise profile

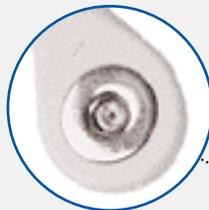


Replaceable band material made with purely silver irreversibly bound to fibers, providing both antimicrobial and anti-odor performance



### Lifetime Warranty

Superior reliability. Greatly exceeds ESD S1.1 Bending Life Test. Tested at over 50,000,000 cycles vs. the 16,000 requirement.



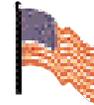
Spring loaded 4mm stainless steel constant contact snap provides constant electrical contact

Patented contoured spring supported banana plug - ensures reliable path-to-ground





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## PREMIUM METAL EXPANSION WRIST STRAPS

- 09041** Band Only
- 09042** Band Only, Extra Large
- 09085** Wrist Strap, 6'
- 91070** Wrist Strap, Angle, 6'

- Metal expansion wrist strap with more reliable path-to-ground
- Patented (US Patent 5,951,337) contoured spring supported banana plug; ensures reliable path-to-ground connection
- Coil cord features superior strain relief with lifetime guarantee; tests in excess of 1,000,000 cycles - eliminates intermittent failures
- One size fits all - adjustment band changes quickly and easily to any size
- Medical grade stainless steel interior expansion band will not cause allergic reactions for most people
- Made in America

### Relaxed Retraction Coil Cords

- 09480** Coil Cord, 6'
- 09680** Coil Cord, 12'
- 09682** Coil Cord, 20'
- 91095** Coil Cord, Right Angle, 6'
- 14113** Coil Cord, Banana-Banana, 12'
- 14114** Coil Cord, Banana-Banana, 20'

**Drawings 09480, 91095, and 14113  
Technical Bulletin TB-2005**

**Drawings 09041, 09480, and 91095, Technical Bulletin TB-2005**



Listing #90P1

SINGLE-WIRE WRIST STRAPS

## PREMIUM METAL EXPANSION FIXED SIZED WRIST STRAPS

- 09043** Band Only, Large
- 09044** Band Only, Medium
- 09045** Band Only, Small
- 09086** Band with 6' Coil Cord, Large
- 09087** Band with 6' Coil Cord, Medium
- 09088** Band with 6' Coil Cord, Small

- Available in three fixed sizes; easy to use, no adjustment
- All features of Premium Metal Expansion Wrist Straps

**Drawings 09043 and 09480, Technical Bulletin TB-2005**



09043

**For detailed information on all  
Desco Single-Wire Wrist Straps, including  
our Wrist Strap Selection Chart:**

**[Desco.com/Catalog](http://Desco.com/Catalog)**

## ELASTIC ADJUSTABLE WRIST STRAPS

- 09028** Band Only
- 09070** Wrist Strap, 6'
- 09069** Wrist Strap, 12'
- 09029** Elastic Replacement Strip
- 09031** Replacement Clasp Only

- Extra wide, soft elastic band for increased wearer comfort
- Has silver impregnated nylon knitted on inside for superior conductivity; reliably removes generated static charges
- Coil cord features superior strain relief with lifetime guarantee; tests in excess of 1,000,000 cycles - eliminates intermittent failures
- Adjustable; only one item to stock; may be fitted to almost all people
- Made in America

### Relaxed Retraction Coil Cords

- 09480** Coil Cord, 6'
- 09680** Coil Cord, 12'
- 09682** Coil Cord, 20'
- 91095** Coil Cord, Right Angle, 6'
- 14113** Coil Cord, Banana-Banana, 12'
- 14114** Coil Cord, Banana-Banana, 20'

**Drawings 09480, 91095, and 14113  
Technical Bulletin TB-2005**

**Drawings 09028 and 09480, Technical Bulletin TB-2005**



09070



Listing #90P1

## ELASTIC FIXED SIZED WRIST STRAPS

- 09025** Band Only, Small
- 09026** Band Only, Medium
- 09027** Band Only, Large

- Available in three fixed sizes; easy to use, no adjustment
- All features of Elastic Adjustable Wrist Straps

**Drawings 09025, Technical Bulletin TB-2005**



09027



**Verify the proper  
function of your Wrist  
Straps with Desco Wrist  
Straps Testers**

**See pages 42**



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SINGLE-WIRE WRIST STRAPS

## LIGHTWEIGHT ELASTIC ADJUSTABLE WRIST STRAPS

- 14840 Band Only
- 14810 Band with 6' Coil Cord
- 14830 Band with 10' Coil Cord

- Durable, lightweight fabric; some users prefer the comfort and flexibility of this material
- Has silver impregnated nylon knitted on inside for superior conductivity; reliably removes generated static charges
- Adjustable; only one item to stock; may be fitted to almost all people
- Made in America

Circumference - 2.5" - 14"

Drawings 14810 and 14010, Technical Bulletin TB-2005

**NOTE:** All bands on this page have a 4mm snap stud. Wrist strap kits include an alligator clip (excluding right angle products).



Listing #90P1



14810

## HOOK AND LOOP WRIST STRAPS

- 09060 Band Only
- 09078 Band with 6' Coil Cord

- Non reactive, anti-microbial, anti-bacterial medical grade conductive strip reduces growth of mold, mildew, and fungus; the best choice for users with ultra sensitive skin
- Return loop, quick, easy adjustment mechanism - one size fits all; only one item number to purchase & stock
- Sewn inner conductive surface with no exposed conductive materials on exterior
- Will not cause allergic reaction and ensures solid electrical contact with skin
- Made in America

Drawings 09060 and 09480, Technical Bulletin TB-2005



09078



Listing #90P1

For detailed information on all  
Desco Single-Wire Wrist Straps, including  
our Wrist Strap Selection Chart:

[Desco.com/Catalog](http://Desco.com/Catalog)

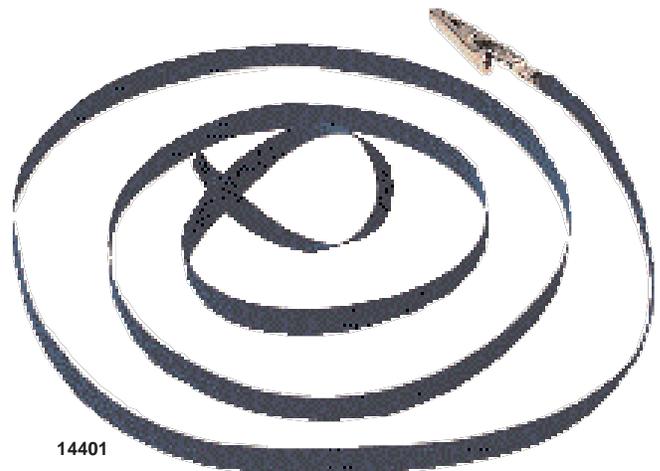
## VINYL DISPOSABLE WRIST STRAPS

- 14401 Disposable Wrist Strap

- Designed for one time use; perfect for guests, field service calls, or to be shipped with ESD sensitive products
- Packaged individually in a printed bag with instructions; ready to pack with your ESD sensitive products ensuring that when opened, the information and means are provided to continue protecting your ESD sensitive product
- Made in America

Note: 35.5" long, mini alligator clip included

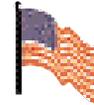
Drawing 14401



14401



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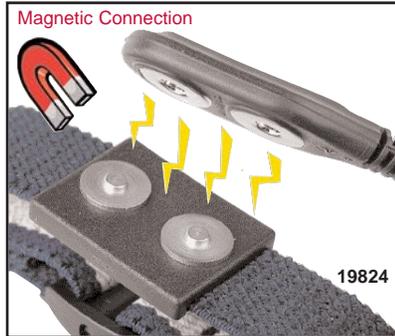
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## Jewel<sup>®</sup> MAGSNAP<sup>®</sup> DUAL-WIRE WRIST STRAPS

- ADJUSTABLE ELASTIC WRISTBAND
- FIXED SIZED METAL WRISTBAND

- 19823 Adj. Elastic Wristband Only
- 19824 Adj. Elastic Wrist Strap, 6', Angle
- 19825 Adj. Elastic Wrist Strap, 12', Angle
- 19828 Metal Wristband Only, Small
- 19827 Metal Wristband Only, Medium
- 19826 Metal Wristband Only, Large
- 19831 Metal Wrist Strap, 6', Angle, Small
- 19834 Metal Wrist Strap, 12', Angle, Small
- 19830 Metal Wrist Strap, 6', Angle, Medium
- 19833 Metal Wrist Strap, 12', Angle, Medium
- 19829 Metal Wrist Strap, 6', Angle, Large
- 19832 Metal Wrist Strap, 12', Angle, Large
- 19820 Coil Cord, MagSnap<sup>®</sup>, 6'
- 19821 Coil Cord, MagSnap<sup>®</sup>, 12'
- 19822 Coil Cord, MagSnap<sup>®</sup>, 20'

### NEW Revolutionary Magnetic Interconnect Technology



Meets ANSI/ESD S20.20 including disengagement force test (1-5 lbs)



- **Longer lasting; prevents wear**
- Patented (US patents 6,052,053 and 6,205,408) Dual-Wire Wrist Strap provides redundancy - if one dual wire wrist strap conductor is severed, operator still has reliable path-to-ground with other wire
- Superior resistor connection strain relief; superior reliability. Greatly exceeds ESD S1.1 Bending Life Test. Ongoing testing over 11,000,000 cycles vs. 16,000 requirement (exceeds by over 600 times the minimum requirement)
- Compatible with 3M and other brand continuous monitors
- Made in America



Listing #90P1

Drawings 19823, 19826 and 19820

## Jewel<sup>®</sup> DUAL WIRE WRIST STRAPS

- ADJUSTABLE ELASTIC WRISTBAND
- PREMIUM METAL DUAL-WIRE WRISTBAND

- 19691 Adj. Elastic Wristband Only, 4mm
- 09163 Adj. Elastic Wrist Strap, 6', Angle, 4mm
- 09164 Adj. Elastic Wrist Strap, 12', Angle, 4mm
- 19844 Metal Wristband Only, 4mm, small
- 19842 Metal Wristband Only, 4mm, Medium
- 19840 Metal Wristband Only, 4mm, Large
- 09165 Metal Wrist Strap, 6', Angle, 4mm, Small
- 09166 Metal Wrist Strap 6', Angle, 4mm, Medium
- 09167 Metal Wrist Strap 6', Angle, 4mm, Large
- 09168 Metal Wrist Strap 12', Angle, 4mm, Small
- 09169 Metal Wrist Strap 12', Angle, 4mm, Medium
- 09170 Metal Wrist Strap 12', Angle, 4mm, Large
- 09160 Coil Cord, 6', 4mm, Right Angle
- 09161 Coil Cord, 12', 4mm, Right Angle
- 09162 Coil Cord, 20', 4mm, Right Angle



- Patented (US patents 6,052,053 and 6,205,408) Dual-Wire Wrist Strap provides redundancy; even if one dual wire wrist strap conductor is severed, operator has reliable path-to-ground with other wire
- Solid stainless steel wrist band stud machined to exacting tolerances and precise profile; ensures reliable path-to-ground connection to spring loaded 4mm stainless steel constant contact coil cord snap
- Superior resistor connection strain relief; superior reliability. Greatly exceeds ESD S1.1 Bending Life Test. Ongoing testing over 11,000,000 cycles vs. 16,000 requirement (exceeds by over 600 times the minimum requirement)
- Lifetime warranty on our wristband stud
- Compatible with 3M and other brand continuous monitors
- Made in America



Listing #90P1

Drawings 09163, 09165 and 09160

For detailed information on all  
Desco Dual-Wire Wrist Straps, including  
our Wrist Strap Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)

DUAL-WIRE WRIST STRAPS



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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

DUAL-WIRE COIL CORDS

## DUAL-WIRE SNAP-ONE™ ADJUSTABLE WRIST STRAPS

- 19695** Snap-One Coil Cord, Right Angle, 6', 4mm Snap
- 19866** Snap-One Coil Cord, Right Angle, 18', 4mm Snap
- 19696** Snap-One Coil Cord, Right Angle, 12', 4mm Snap
- 19862** Coil Cord, Right Angle, 6', 4mm Snap
- 19690** Band with 6' Coil Cord, Right Angle, 4mm
- 19851** Band with 12' Coil Cord, Right Angle, 4mm
- 19860** Band with 6' Coil Cord, Right Angle, 7mm Female Snap

- Dual Wire Wrist Strap provides redundancy; even if one dual wire wrist strap conductor is severed, operator has reliable path-to-ground with other wire
- Used with resistive loop technology continuous monitor, continuously verifies the proper resistance to ground of the operator
- Comfortable adjustable wristband made of silver suffused monofilament conductive interior
- 4mm snaps are machined to precision profile from 300 series stainless steel for a consistent and reliable connection
- Woven Silveron™ fabric infused with silver monofilament conductive fiber is comfortable and hypo-allergenic
- Single (Snap-One™) snap head allows operators to quickly and easily attach and detach the cord from the wristband
- Park-it feature on Snap-One™ provides convenient park station for cord when not in use
- Patented (6,052,053 and 6,205,408) dual wire technology
- Superior warranty - See details of 1 year Limited Warranty
- Made in America

Drawings 19690, 19695, and 19868



Listing #90P1



Continuously verify that your Wrist Straps are properly grounded with Desco's Continuous Monitors.

See pages 40 and 41

For detailed information on all Desco Dual-Wire Wrist Straps, including our Wrist Strap Selection Chart:

[Desco.com/Catalog](http://Desco.com/Catalog)

## PREMIUM DUAL-WIRE SNAP-ONE™ METAL EXPANSION WRIST STRAPS

- 19695** Snap-One Coil Cord, Right Angle, 6', 4mm Snap
- 19866** Snap-One Coil Cord, Right Angle, 18', 4mm Snap
- 19696** Snap-One Coil Cord, Right Angle, 12', 4mm Snap
- 19862** Coil Cord, Right Angle, 6', 4MM, Snap
- 19857** Band with 6' Coil Cord, Right Angle, 4mm Large
- 19858** Band with 6' Coil Cord, Right Angle, 4mm Medium
- 19859** Band with 6' Coil Cord, Right Angle, 4mm Small

- Patented (US patents 6,052,053 and 6,205,408) Dual-Wire Wrist Strap provides redundancy - even if one dual wire wrist strap conductor is severed, operator has reliable path-to-ground with other wire
- Use with resistive loop technology continuous monitor
- Premium metal expansion wrist strap with more reliable path-to-ground
- Comfortable, designed not to pinch or pull hair!
- Eliminates allergic skin reaction for most people
- Single (Snap-One™) snap head allows operators to quickly and easily attach and detach the cord from the wristband
- Park-it feature on Snap-One™ provides convenient park station for cord when not in use
- Made in America

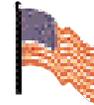
Drawings 19859, 19695, and 19868



Listing #90P1



# DESCO



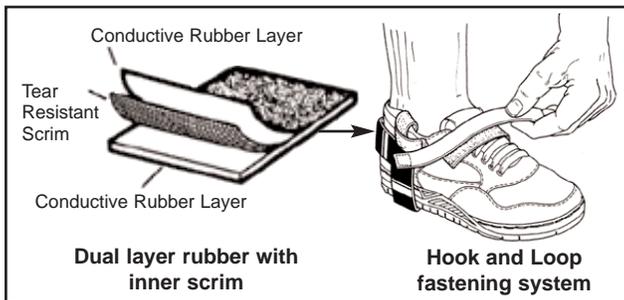
See our products being  
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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## PREMIUM HOOK & LOOP HEEL GROUNDERS

- 17200** Heel Grounder, 1 Megohm Resistor
- 17202** Heel Grounder, 2 Megohm Resistor
- 17260** Heel Grounder, 2 Megohm Resistor, Green
- 17222** Toe Grounder, 1 Megohm Resistor

- Non-marring interior will not mar shoes
- Tear resistant dual layer rubber with inner scrim provides long life and saves money
- Hook and loop fastening assembly; genuine "non-selvedged" Velcro® material - adjustable and comfortable
- 2 megohm version; always complies with UL and OSHA standards
- 8 strand grounding tab for better body grounding contact
- RoHS compliant
- Made in America

Drawing 17200, 17222 and 17260, Technical Bulletin TB-2020



For detailed information on all  
Desco Foot Grounders, including  
our Foot Grounder Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)

**Desco's  
TOP selling  
Heel  
Grounder!**



17200



Listing #90P1



17260

Green heel grounder for use in lead-free areas



17222

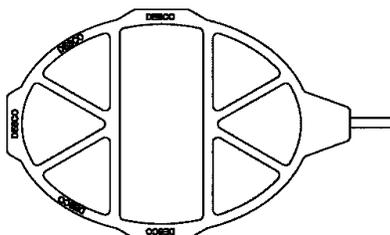
Toe cup for use with high heeled shoes

## FULL COVERAGE FOOT GROUNDERS

- 17270** Heel Grounder, 1 Megohm Resistor, Small
- 17271** Heel Grounder, 1 Megohm Resistor, Medium
- 17272** Heel Grounder, 1 Megohm Resistor, Large

- Revolutionary design, requires no fastening system
- Easier to install than most foot grounders
- Design ensures a snug, reliable fit
- High visibility yellow helps visual compliance and is non-marring to floors and shoes
- Provides contact with the ESD floor both under the foot's sole as well as the heel area, providing a more reliable path-to-ground than regular heel or toe grounders
- Choice for HBM class 0 applications
- RoHS compliant
- Made in America

Drawing 17270, Technical Bulletin TB-2020



Full Coverage Foot Grounder

# NEW



17270



Listing #90P1

FOOT GROUNDERS



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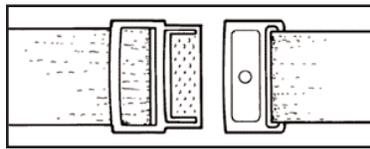
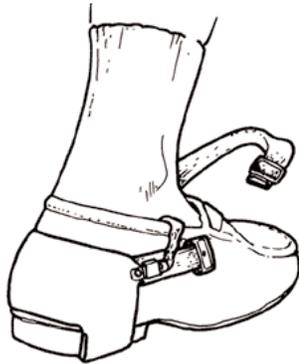
FOOT GRINDERS

## PREMIUM FULL COVERAGE FOOT GRINDER

- 17290** Foot Grinder, 2 Megohm Resistor, Small
- 17291** Foot Grinder, 2 Megohm Resistor, Medium
- 17292** Foot Grinder, 2 Megohm Resistor, Large

- Two points of contact on the foot's sole as well as the heel area, providing a more consistent path-to-ground than regular heel or toe grinders
- Snap-loc fastening system; easy to install and remove; least particulation and sloughing
- Choice for HBM class 0 applications
- Tear resistant dual layer rubber with inner scrim provides long life and saves money
- Two megohm resistor complies with UL and OSHA standards at all times
- UL listed for added safety
- RoHS compliant
- Made in America

Drawing 17290, Technical Bulletin TB-2020



Snap-loc fastening system

For detailed information on all  
Desco Foot Grinders, including  
our Foot Grinder Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



17290



Listing #90P1

## PREMIUM SOLE GRINDERS

- 07501** Sole Grinder, Small, 2 Megohm Resistor
- 07502** Sole Grinder, Medium, 2 Megohm Resistor
- 07503** Sole Grinder, Large, 2 Megohm Resistor

- Makes contact at the sole of the foot where majority of operator's weight is located
- Two megohm resistor; always complies with UL and OSHA standards
- Tear resistant dual layer rubber with inner scrim provides long life - saving money
- Non-marring interior will not mar shoes
- Hook and loop fastening system allows for flex during walking; easy to install and remove
- RoHS compliant
- Made in America

Drawing 07501, Technical Bulletin TB-2020



Verify the proper function of  
your Foot Grinders with  
Desco Foot Ground Testers

See page 42



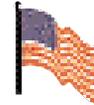
07501



Listing #90P1



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## PREMIUM 3-LAYER NON-MARRING HEEL GROUNDERS

**17250** Heel Grounder, No Resistor  
**17252** Heel Grounder, 1 Megohm Resistor

- Non-marring interior and exterior dissipative rubber; will not mar shoes or floors - reduces maintenance costs of touching up floors
- Hook and loop fastening assembly; genuine "non-selvedged" Velcro® material - adjustable and comfortable
- Bright yellow rubber cup; high visibility to ensure program compliance
- No exposed carbon; ideal for cleanrooms
- Reversible static dissipative 3-layer yellow rubber; extended life expectancy; exceptional wear resistance, able to use all four wearing surfaces
- RoHS compliant
- Made in America

**Drawing 17250,**  
**Technical Bulletin TB-2020**



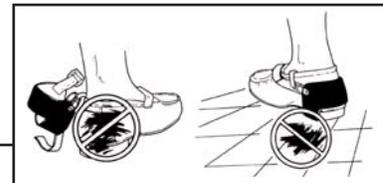
High  
visibility!



17250



Listing #90P1



Will not mar shoes or floors

FOOT  
GROUNDERS

## 3-LAYER NON-MARRING HEEL GROUNDERS

**07515** Heel Grounder, 2 Megohm Resistor

- Non-marring interior and exterior dissipative rubber; will not mar shoes or floors - reduces maintenance costs of touching up floors
- No exposed carbon; ideal for cleanrooms
- Snap-loc fastening system; easy to install and remove; least particulation and sloughing
- 2 megohm resistor; complies with UL and OSHA standards at all times
- Reversible static dissipative 3-layer grey rubber; extended life expectancy; exceptional wear resistance, able to use all four wearing surfaces
- RoHS compliant
- Made in America

**Drawing 07515, Technical Bulletin TB-2020**



07515



Listing #90P1

For detailed information on all  
Desco Foot Grounders, including  
our Foot Grounder Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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FOOT GRINDER

## D-RING HEEL GRINDERS

- 07590** Heel Grinder, 1 Megohm Resistor
- 07595** Toe Grinder, 2 Megohm Resistor

- Non-marring interior will not mar shoes
- Exceptionally tear resistant dual layer rubber with inner scrim provides long life and saves money
- D-ring fastening system allows for flex during walking; less particulation and sloughing
- 1 megohm, heavy duty external molded resistor
- Two-ply high abrasion, wear resistant rubber; provides rapid and complete static dissipation
- Made in America

Drawing 07590 and 07595, Technical Bulletin TB-2020



07590

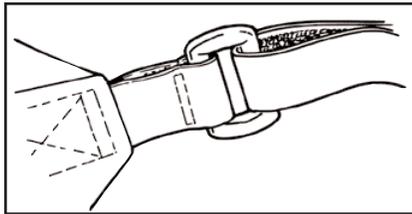


Listing #90P1



07595

Toe cup for use with high heeled shoes



D-Ring fastening system



To be effective, foot grinders must be used in conjunction with an ESD floor, such as one treated with ESD Floor Finish

**See page 19**

## HIGH VISIBILITY DISPOSABLE HEEL GRINDERS

- 17155** High Visibility Disposable Heel Grinder, 100 per pack

- Designed for single use for guests
- Sold in packs of 100
- Self-adhesive section for reliable adhering to underside of heel
- Yellow with black conductive stripe - provides excellent visibility
- Electrical resistance 5 x 10E4 to 8 x 10E5 ohms end-to-end
- Made in America

Drawing 17155, Technical Bulletin TB-2020

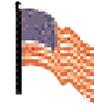


17155

For detailed information on all  
Desco Foot Grinders, including  
our Foot Grinder Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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## STATSHIELD® SMOCKS

### STATSHIELD® JACKETS WITH CUFFS

Size	BLUE	WHITE	TEAL	BURGUNDY
X Small	73749	73830	73850	73900
Small	73750	73831	73851	73901
Medium	73755	73832	73852	73902
Large	73760	73833	73853	73903
X Large	73765	73834	73854	73904
2X Large	73770	73835	73855	73905
3X Large	73771	73836*	73856*	73906
4X Large	73772*	73837*	73857*	73907
5X Large	73773*	73838*	73858*	73908
6X Large	73774*	73839*	73859*	73909

### STATSHIELD® LAB COATS WITH CUFFS

Size	BLUE	WHITE	TEAL
X Small	73610	73630	73650
Small	73611	73631	73651
Medium	73612	73632	73652
Large	73613	73633	73653
X Large	73614	73634	73654
2X Large	73615	73635	73655
3X Large	73616	73636*	73656*
4X Large	73617*	73637*	73657*
5X Large	73618*	73638*	73658*
6X Large	73619*	73639*	73659*

\* Items are BTO (Build to Order)

- **Groundable static control garment system per ANSI/ESD S20.20**
- *Conductive knitted cuff eliminates need for wristband*
- *Creates Faraday Cage effect; charges on worker clothing are shielded, protecting ESD sensitive devices*
- *Patented\* hip-to-cuff grounding allows your coil cord to snap to the hip of the smock for hands-free grounding, increasing productivity*
- *9% minimum carbon conductive nylon fibers woven in chain-link design; provides continuous and consistent charge dissipation*
- *Panel to panel continuity prevents isolated charged conductor in ESD protected area*
- *10E5 - 10E6 ohms per ANSI/ESD STM 2.1*
- *Made in America*

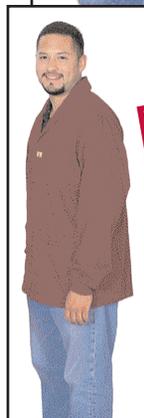
### Technical Bulletin TB-2055



Premium Statshield® Smocks feature our patented\* Hip-to-Cuff grounding feature for hands-free grounding. This removes charges from the worker and smock while allowing hands to be free, allowing for increased productivity. Can be tested while worn using a wrist strap tester per ESD TR53.

\*U.S. Patent #4,596,053

**LIMITED WARRANTY**  
2 years or 100 laundings



73833

73652

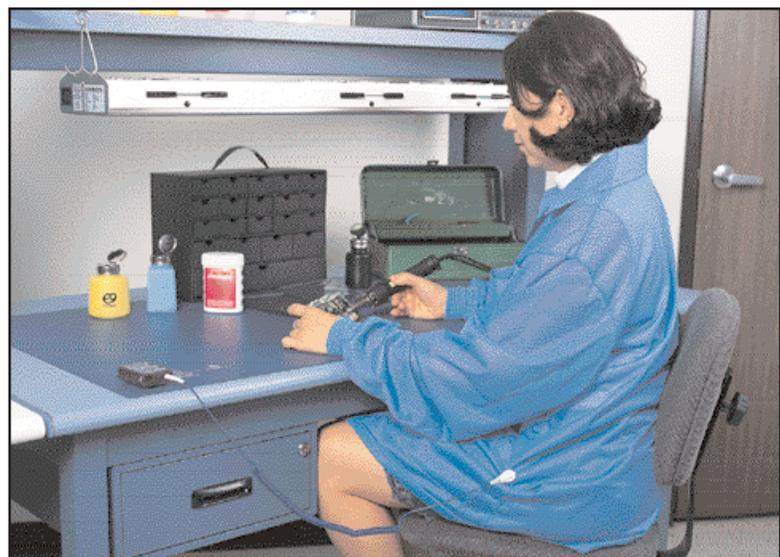
73750

**NEW**  
Burgundy Color

Custom embroidery available. See page 16.

**Design:** 3 pockets, collar, and conductive cuff  
**Color:** Blue, White, Teal, Burgundy  
**Fabric:** Polyester with 9% minimum carbon suffused fibers  
**Fabric Weight:** 2.25 ounces/sq yard  
**Durability:** 100 minimum laundings; see 2 year limited warranty at: [Desco.com](http://Desco.com)

73902



**Desco Statshield® Smocks are specifically engineered and designed to be part of the Operator Grounding System for "Hands-Free" operator grounding while seated or standing.**

SMOCKS



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SMOCKS

## HEAVY DUTY COTTON POLY ESD SMOCKS

Size	BLUE
Small	73500
Medium	73501
Large	73502
X Large	73503
2X Large	73504

- Groundable static control garment per ANSI/ESD S20.20
- Style: 1/2 length jacket with two side pockets and one breast pocket
- Stud fastening
- Fabric: 63% polyester, 34% cotton, 3% conductive fibers
- Maintains conductive properties and shape after 50\* launderings
- Surface resistance: <10E9 ohms per ANSI/ESD S2.1

\*Maximum wash temperature 122°F(50°C), maximum ironing temperature 212°F (100°C), no bleaching

Technical Bulletin TB-3036



For detailed information on all  
Desco Smocks:

[Desco.com/Catalog](http://Desco.com/Catalog)

# NEW!

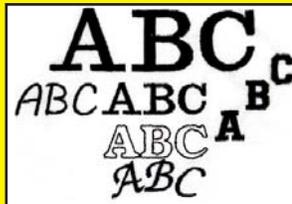
## Desco Now Provides Custom Embroidery for Your Smocks:

**Make smocks special with:**

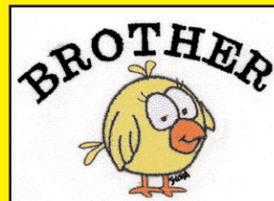
- **Company Names and Logos**
- **Individual Names**
- **Custom Logos**

Your Name Here

Company Name and Logo



Individual Names



Custom Logos - call for a quote

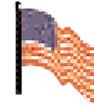
Call us at (909) 627-8178 or visit us online for pricing and complete details: [Desco.com](http://Desco.com)

Smocks with many custom options can be special ordered. Ask us for details.





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GLOVES

## STATIC DISSIPATIVE GLOVES

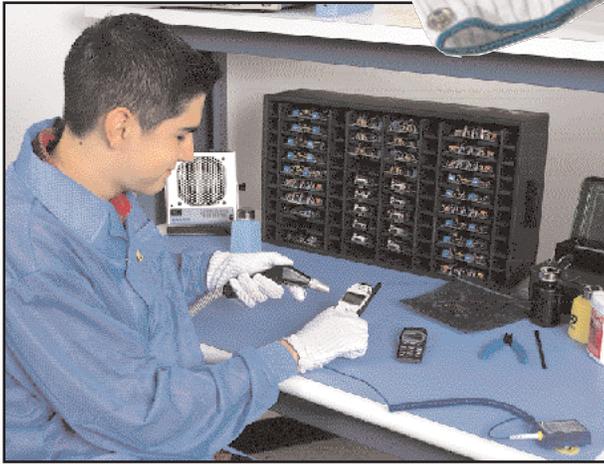
- 68105** Man's Small, Beige
- 68104** Man's Medium, Blue
- 68103** Man's Large, Brown
- 68106** Man's Extra Large, Grey
- 68102** Woman's Small, Pink
- 68101** Woman's Medium, Red
- 68100** Woman's Large, Orange

- *Non-allergenic polyester glove; comfortable, antistatic; low tribocharging material will conduct charges to ground*
- *Installed 4mm snap stud attaches to coil cord; eliminating need for wristband*
- *RTG 10E5 - 10E7; can be tested while worn using standard wrist strap testers*
- *Color coded, numerous sizes available; better fit provides high tactile sensitivity; size easily identified*
- *Made in America*



68104

**Drawing 68100**



**Request a Sample!**

## STATIC DISSIPATIVE HOT GLOVES

- 68112** Small
- 68111** Medium
- 68110** Large

- *Non-allergenic polyester glove; comfortable, antistatic, low tribocharging material will conduct charges to ground*
- *Nomex® lining; operator can handle objects to a temperature of 200°F maximum*
- *Installed 4mm snap stud attaches to coil cord*
- *RTG 10E5 - 10E7; can be tested with standard wrist strap tester*
- *Unisex sizes; versatile, with minimum inventory*
- *Made in America*



68111

Nomex® lining

**Request a Sample!**

**Drawing 68110**

For detailed information on all  
Desco Gloves:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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GLOVES / FIELD SERVICE

## FORM FITTING ESD GLOVES

- 68120 Small
- 68121 Medium
- 68122 Large
- 68123 X-Large

- Nylon knitted glove is form fitting, comes in 4 sizes
- Choice where tactile sensitivity is important when handling small parts
- Use where cleanliness or charged device model (CDM) failures are a concern
- Personnel grounding devices can be tested with glove worn with regular wrist strap-footwear tester
- Good elasticity and ventilation minimizes sweat buildup
- Resistance 10E5 – 10E8 ohms tested per ANSI/ESD 5P15.1 Standard Practice for In-Use Resistance Testing of Gloves and Finger Cots

Drawing 68120



**Request a Sample!**



**For use in Labs and Field Service**

Desco AC Outlet Analyzer and Wrist Strap Tester

See page 45

For detailed information on all Desco Gloves and Service Kits:

[Desco.com/Catalog](http://Desco.com/Catalog)

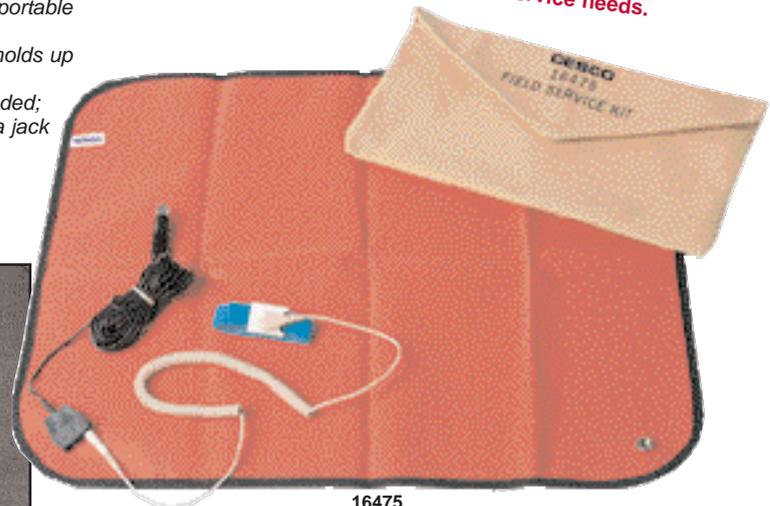
## FIELD SERVICE KIT WITH POUCH

16475 18" x 22" Field Service Kit with Pouch

- 18 mil (0.018" thick) red laminated dissipate vinyl; dissipative, portable worksurface with two ground snaps
- Construction is a supported laminate for added tear strength; holds up longer in demanding and rough "Field Service" environment
- Adjustable wrist strap and 15' common point ground cord included; everything needed is provided, including large clip with banana jack for use when electrical ground is not available
- Made in America

Drawing 16475

*Provides the same "High Performance ESD Control" properties from the manufacturing level to your on-site Field Service needs.*



16475

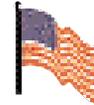


**Creates ESD Protected Area in the Field**

Note: Per ANSI/ESD S20.20 "a protected area may be a single workstation (fixed or portable), laboratory, room, building, or any other area with pre-designated boundaries that contain materials and equipment designed to limit electrostatic potentials."



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## FLOOR MAINTENANCE RECOMMENDATIONS

After 2-3 coats of floor finish have been applied, the following programs can be used for maintenance:

### Statguard®

#### DRY MOP PROGRAM - Simplest program

Floor should be regularly mopped to remove loose dirt and grit from the floor

#### DAMP MOP PROGRAM - Simplest program, requires no additional products

Damp mop with a mixture of 3 parts water, 1 part Statguard® floor finish.

- **Heavy-Moderate Traffic:** Clean once a week.
- **Low Traffic Floors:** Clean floors as dictated by floor appearance.

#### FLOOR CLEANER PROGRAM - Cleans surface stains, heel marks, and other blemishes

Dilute Statguard® Dissipative Floor Cleaner 10 parts clean water to 1 part Floor Cleaner.

- **Heavy-Moderate Traffic:** Clean once a week, or as dictated by floor appearance.
- **Low Traffic Floors:** Clean floors as dictated by floor appearance.

#### SPRAY BUFF PROGRAM - Repair scratches, marks, and imperfections and increase gloss

One part Statguard® finish and two parts water used with buffing machine.

- **Heavy-Moderate Traffic:** Spray buff once a week.
- **Low Traffic Floors:** Spray buff as dictated by floor appearance

#### DRY BURNISH PROGRAM - Increase gloss and remove surface imperfections

Use high speed buffing machine with a white or beige pad.

- **Heavy-Moderate Traffic:** Once a week.
- **Low Traffic Floors:** Dry burnish as dictated by floor appearance.

For more information, see *Technical Bulletin TB-2088*

### Statfree®

#### DRY MOP PROGRAM - Simplest program

Floor should be regularly mopped to remove loose dirt and grit from the floor.

#### FLOOR CLEANER PROGRAM - Cleans surface including stains, heel marks, and other blemishes

Dilute Statguard® Dissipative Floor Cleaner 10 parts clean water to 1 part Statguard® floor cleaner.

- **Heavy-Moderate Traffic:** Clean once a week.
- **Low Traffic Floors:** Clean floors as dictated by floor appearance.

#### SPRAY BUFF PROGRAM - Repair scratches, marks, and imperfections and increase gloss

Use ready to use Statfree® Spray Buff with buffing machine.

- **Heavy-Moderate Traffic:** Spray buff once a week or as dictated by appearance.
- **Low Traffic Floors:** Spray buff as dictated by floor appearance.

#### BURNISHING RESTORER PROGRAM - Renews the unique protective properties and gloss

Ready to use formulation saves on materials and labor costs.

- **Heavy Moderate Traffic:** Treated 2-4 times
- **Low Traffic Floors:** Treated approximately 1 time per month.

#### DRY BURNISH PROGRAM - Increases gloss and remove surface imperfections

Use ready to use Statfree® Burnisher Restorer with buffing machine.

- **Heavy-Moderate Traffic:** Once a week.
- **Low Traffic Floors:** Dry burnish as dictated by floor appearance.

For more information, see *Technical Bulletin TB-2045*

## STATGUARD® DISSIPATIVE FLOOR FINISH

- 10511** Statguard® Floor Finish, 2.5 Gallon Cube Bag-in-Box
- 10512** Statguard® Floor Finish, 5 Gallon Cube Bag-in-Box
- 10520** Statguard® Floor Finish, 55 Gallon Drum
- 10554** Statguard® LH Floor Finish, 2.5 Gallon Cube Bag-in-Box
- 10556** Statguard® LH Floor Finish, 5 Gallon Cube Bag-in-Box
- 10500** Statguard Floor Label, 8" diameter, Pack of 10

- *Low-tribocharging; limits charge generation when walking, < 100 volts per ANSI/ESD S20.20 Flooring-Footwear System ANSI/ESD STM 97.2*
- *Static dissipative; with ESD footwear, removes the charge off your body*
- *Can be applied on many hard surfaces or sealed floors including vinyl, VCT, linoleum, rubber, epoxy, acrylic paint, and concrete; converts a non-ESD floor to an ESD floor*
- *UL classified for slip resistance only; ensures worker safety and mitigates user's liability exposure*
- *RTT: 10E7-10E9 ohms per ANSI/ESD S7.1 @ 50% R.H.*
- *RoHS compliant*
- *Made in America*

Technical Bulletin TB-2088

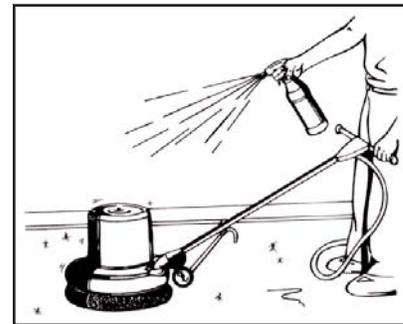
**18% Solids**  
Saves on dry  
time and  
maintenance

  
Listing #90P1

10512



**Damp Mop and  
Floor Cleaner Programs**  
(Use dedicated mop and bucket)



**Spray Buff and  
Dry Burnishing Programs**

Item #10500 Statguard® 8" Floor Label included at no charge with 2.5 and 5 gallon Cube Bag-in-Box

The 10500 Statguard® Label is used to identify a floor as "ESD Protective" and meets ANSI/ESD S20.20



10500



#### Bag-In-Box Packaging:

- Recyclable
- Prevents wasted material
- Prevents spills

FLOOR MAINTENANCE



# DESCO



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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

FLOOR MAINTENANCE

## STATGUARD® FLOOR CLEANER

- 10561** Statguard® Floor Cleaner, 2.5 Gallon Cube Bag-in-Box, Concentrate
- 10566** Statguard® Floor Cleaner, 5 Gallon Cube Bag-in-Box, Concentrate

- Formulated with dissipative agents that rejuvenate and improve the properties of Floor Finish; cleans floors coated with Statguard® and Statfree® Floor Finish
- Cleans conductive tile flooring; cleans dissipative and conductive floors
- Cleans effectively; does not leave behind insulative residue
- 15% solids; easy to apply; improving productivity
- RoHS compliant
- Bag-in-box packaging; less space to ship and store
- Made in America

Technical Bulletin TB-2090



10566

Good for  
use with ESD  
Tiles and ESD  
Floor Mats

For detailed information on all  
Desco Floor Maintenance Products:  
[Desco.com/Catalog](http://Desco.com/Catalog)

## STATGUARD® FLOOR STRIPPER

- 10441** Statguard® Floor Stripper, 2.5 Gallon Cube Bag-in-Box, Concentrate
- 10442** Statguard® Floor Stripper, 5 Gallon Cube Bag-in-Box, Concentrate

- Non-ammoniated and phosphate-free; environmentally safe, biodegradable
- Low pH formulation; designed to break up and lift multiple layers of Statguard® or Statfree® Floor Finish
- Strips floor finish from vinyl, VCT, concrete, rubber, terrazzo, quarry tile, brick, slate and unglazed ceramic
- Bag-in-box packaging; less space to ship and store
- Made in America

Technical Bulletin TB-2089



10442

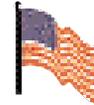
To Ground Mobile Personnel,  
You Need Both an ESD Floor  
and ESD Footwear

For Foot Grounders,  
see pages 11 - 14





# DESCO



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## STATFREE® FLOOR FINISH

- 81012** Statfree® Floor Finish, 2.5 Gallon Cube Bag-in-Box
- 81013** Statfree® Floor Finish, 5 Gallon Cube Bag-in-Box
- 81030** Statfree® Floor Finish, 55 Gallon Drum

**18% Solids**  
Saves on dry  
time and  
maintenance

- Zinc-free; for companies wanting to reduce discharge of zinc in waste water
- Non-tribocharging; limits charge generation when walking, < 100 volts per ANSI/ESD S20.20, tested per ESD ANSI/ESD STM97.2
- 18% solids; easy to apply, improving productivity
- UL classified for slip resistance only; ensures walker safety and mitigates user's liability exposure
- Bag-in-box packaging; less space to ship and store
- RTT 10E7-10E9 ohms per ANSI/ESD S7.1 @ 50% R.H.
- Made in America

Technical Bulletin TB-2045

For detailed information on all  
Desco Floor Maintenance Products:  
[Desco.com/Catalog](http://Desco.com/Catalog)



81013

FLOOR MAINTENANCE

## STATFREE® BURNISHING RESTORER

- 81061** Statfree® Burnishing Restorer, 2.5 Gallon Cube Bag-in-Box

- Unique formula extends re-coat cycle - extends ESD floor electrical properties and restores gloss; reduces cost
- Easy to use - uses standard burnishing machine
- Bag-in-box packaging - storage, dispensing, and savings benefits
- Lead-free RoHS compliant
- Made in America

Technical Bulletin TB-2049



81061

## STATFREE® SPRAY BUFF

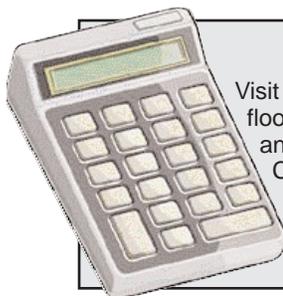
- 81050** Statfree® Spray Buff, 1 Quart Bottle

- Unique ESD formula; cleans surface soils, and repairs scratches and marks on floors; adds high gloss shine
- Extends life of floor finish; reduces cost
- Lead-free RoHS compliant
- Made in America

Technical Bulletin TB-2048



81050



### Desco Floor Care Calculator

Visit [Desco.com](http://Desco.com) to choose your Statguard® or Statfree® floor care maintenance program and determine the annual budget and cost per sq. ft. The Desco Floor Care Calculator walks you through the choices of an annual floor care maintenance program. The calculator produces a list of products and quantity needed for the chosen maintenance and floor area entered.



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FLOOR MAINTENANCE

## STATGUARD® CARPET PROTECTOR

- 81070** Carpet Protector, 1 Quart Ready to Use
- 81071** Carpet Protector, 1 Gallon Concentrate

- *Makes non-ESD chair fabrics and carpet ESD protective; controls against ESD while protecting fabric color and life*
- *Protects chair fabrics and carpet from soil and stains; maintains new-looking appearance of chair fabrics and carpet*
- *Can be applied to fabric chairs, carpet and other fiber materials; trigger spray makes product easy to apply to small carpeted areas and fabric chairs*
- *RTT 10E5 - 10E9 ohms per ANSI/ESD S4.1*
- *Made in America*

Technical Bulletins TB-2094



81070

## STATGUARD® CONDUCTIVE ACRYLIC LATEX PAINT

- 10408** 1 Gallon Pail, Grey
- 10409** 5 Gallon Pail, Grey
- 10410** 5 Gallon Pail, Light Grey

- *RTT 10E4 - 10E6 ohms per ANSI/ESD-S7.1; conductive - able to remove electrostatic charges to ground*
- *Exceeds ANSI/ESD S20.20 minimum recommended technical requirements of <math>1 \times 10^9</math> ohms for ESD Protected Flooring*
- *Suitable component in Flooring - Footwear System as primary grounding method (<math><3.5 \times 10^7</math>ohms per ANSI/ESD STM 97.1)*
- *Adheres to floors, walls, or wood furniture; provides ESD protective surface on concrete and epoxy floors and in places which are difficult to protect*
- *Excellent wear and durability; excellent value providing long-life*
- *Apply via rolling or spraying; productive application and maintenance; easy cleanup*
- *Two colors to choose from; grey hides dirt better in most applications; Light Grey brightens up factory area*
- *Coverage: 300-400 sq. ft/gallon; excellent value*
- *RoHS compliant*
- *Made in America*

Technical Bulletin TB-7001



Grey

10409



Light Grey

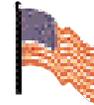
**An Effective Alternative to  
Conductive Floor Mats and Tiles**

For detailed information on all  
Desco floor maintenance products:

[Desco.com/Catalog](http://Desco.com/Catalog)



# DESCO



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## REZTORE™ ANTISTATIC SURFACE AND MAT CLEANER

- 10434** Reztore™ Surface & Mat Cleaner, 16 Ounce Spray, Carton of 12
- 10435** Reztore™ Surface & Mat Cleaner, 1 Quart Spray
- 10438** Reztore™ Surface & Mat Cleaner, 2.5 Gallon Cube Bag-in-Box, Refill System
- 10601** Static-Wipes, Pop-Up Dispenser, 60 Wipes, Carton of 12
- 10600** Static-Wipes, Pop-Up Dispenser, 160 Wipes

- *Static dissipative solution; cleans and restores ESD mats*
- *Does not contain silicone; cleaners with silicone leave an insulative layer, preventing conductive or dissipative mats from functioning properly*
- *Removes contaminants; eliminates possible source of ESD event*
- *Reztore™ special formula will not dry out mats; Reztore™ will optimize life expectancy, electrical performance keeping mats low charging and pliable*
- *Made in America*

Technical Bulletins TB-7000 and TB-7020



Use with mats, foot grounders, ESD shoes, and other ESD control products

10438 bag-in-box refill system



10600



10435

Save money by refilling  
16 or 32 oz bottles.  
Refill saves 63% per oz to refill.

## REZTORE™ TOPICAL ANTISTAT

- 10415** Reztore™ Topical Antistat, 1 Quart Spray, Carton of 12
- 10418** Reztore™ Topical Antistat, 2.5 Gallon cube Bag-in-Box, Refill System

- *Low charging, antistatic; keeps triboelectric charges well below 200 volts per EIA 625*
- *Long lasting hard coat formula; protection that lasts three times as long as the other leading brands*
- *Static dissipative; provides path-to-ground*
- *Bag-in-box packaging; less space to ship and store*
- *RTT 10E6 ohms per ANSI/ESD S4.1*
- *Made in America*

Technical Bulletin TB-7005



10418

For detailed information on all  
Desco floor maintenance products:  
[Desco.com/Catalog](http://Desco.com/Catalog)

Save money by  
refilling 1 qt bottle.  
Refill saves 51% per oz to refill.

## AISLE MARKING TAPE

- 81800** Tape, 3" x 54', Roll
- 81801** Tape, 3" x 108', Roll
- 81802** Tape, 3" x 216', Roll

- *Clearly identifies boundaries of ESD protected areas*
- *Scuff-resistant vinyl plastic; tough, durable floor tape*
- *Quick-stick adhesive; easy to adhere to floor*
- *Bright yellow color; excellent for aisle marking and ESD protected area designation*
- *Made in America*



81800



Drawing 81800

FLOOR MAINTENANCE / AISLE MARKING TAPE



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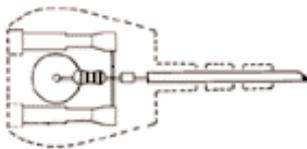
WORKSURFACE GROUNDING

## COMMON POINT GROUND FOR BENCH MAT AND TWO WRIST STRAPS

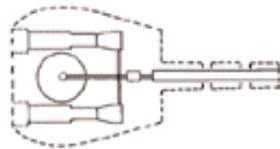
- 09820 Without Resistor, 10mm Socket, 10' Cord
- 09821 With Resistor, 10mm Socket, 10' Cord
- 09825 Without Resistor, 10mm Stud, 15' Cord
- 09826 With Resistor, 10mm Stud, 15' Cord
- 14213 Complete Bench Ground Kit, With Resistor

- Two banana jacks; provides two grounding points for wrist straps or carts
- Ring terminal at end of ground cord allows easy attachment to electrical ground
- Snaps to mat; low profile reduces snagging of clothes and work instruments
- Available as a kit; 14213 kit includes one 09826 common point ground and one 09864 universal snap kit
- Made in America

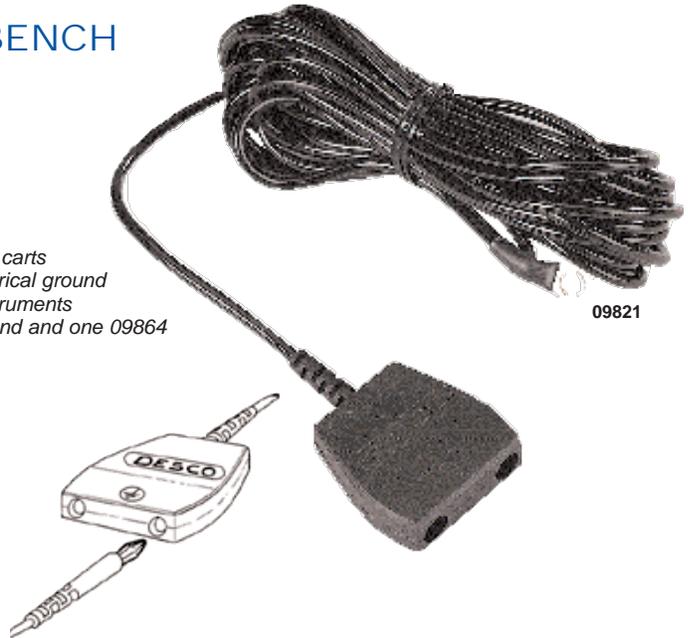
Drawings 09820 and 09825, Technical Bulletins TB-2003, TB-2000



With Resistor



Without Resistor



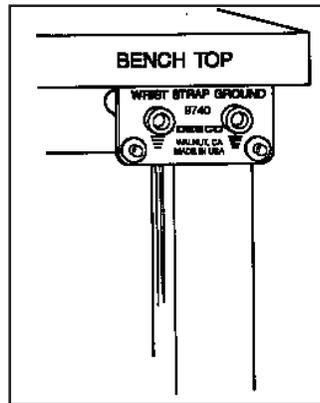
09821

## BENCH MOUNTED GROUND WITH TWO BANANA JACKS

- 09740 Dual Wrist Strap Ground Without Resistor, 10' Cord
- 09741 Bench Mounted Ground, Parking Station, Without Resistor, 10' Cord

- Two banana jacks; provides two grounding points for wrist straps or carts
- Mounts under the front edge of workstation; saves work space
- 2 "Parking Studs"; helps prevent damage to wrist strap cord when not in use
- Wrist strap parking station on unit (09741 only); allows operator to hang wristband when leaving workstation
- Made in America

Drawing 09740, 09741  
Technical Bulletins TB-2003, TB-2000



09740

For detailed information on  
all Desco Worksurface  
Grounding Products:  
[Desco.com/Catalog](http://Desco.com/Catalog)



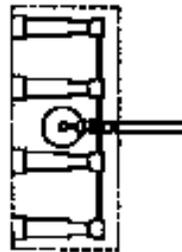
09741

## QUAD COMMON POINT GROUND

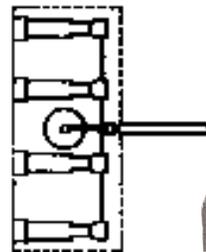
- 09835 Without Resistor, 10mm Stud, 10' Cord
- 09836 With Resistor, 10mm Stud, 10' Cord

- Four banana jacks; provides for four grounding points for operators, visitors, and/or carts
- Compact design; fits neatly under bench top - does not use valuable worksurface space
- Pair of mounting holes with two #10 screws; allows unit to be permanently installed to workbench
- Ring terminal at end of ground cord; allows easy attachment to electrical ground
- Made in America

Drawing 09835, Technical Bulletins TB-2003, TB-2000



With Resistor



Without Resistor



09835



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## MAT GROUND CORD WITH 10MM SOCKET

- 09817** Without Resistor, 10mm Socket, 10' Cord
- 09818** With Resistor, 10mm Socket 10' Cord

- 10mm (0.395") female snap socket easily snaps to mat stud
- Ground cord terminated with ring terminal allows easy attachment to electrical ground
- Made in America

Drawing 09817, Technical Bulletin TB-2000



09818

## FLOOR AND WORKSURFACE GROUND CORD WITH 10MM STUD

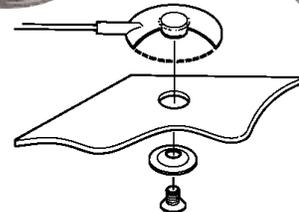
- 09813** With Resistor, 10mm Stud 15' Cord
- 09814** Without Resistor, 10mm Stud, 15' Cord
- 14234** Complete Floor Ground Kit, With Resistor

- Low profile reduces inadvertent snagging or tripping that may disconnect ground cord
- 10mm (0.395") snap stud easily snaps to mat socket, flush to mat surface
- Stud has threaded hole; 6-32x1/4" flat head screw and countersunk washer are provided; allows ground cord to be optionally bolted to mat; keeps cord from disconnecting; ensures proper grounding
- Available as a kit; 14234 kit includes one 09813 ground cord and one 09864 universal snap kit
- Made in America

Drawing 09814, Technical Bulletin TB-2000



09813



Screw allows ground cord to be bolted to mat; keeps cord from disconnecting.

For detailed information on all Desco Worksurface Grounding Products:  
[Desco.com/Catalog](http://Desco.com/Catalog)

## GROUND CORD WITH BANANA PLUG

- 09816** Without Resistor, 10mm Stud, 6' Cord

- Ground cord terminated with a banana plug; connects from mat socket to banana jack
- Low profile; reduces inadvertent snagging that may disconnect ground cord
- 10mm (0.395") snap stud; easily snaps to mat socket, flush to mat surface
- Stud has threaded hole; 6-32x1/4" flat head screw and countersunk washer are provided; allows ground cord to be optionally bolted to mat
- Made in America

Drawing 09816, Technical Bulletin TB-2000



09816

### Should a Ground Cord Have a Current Limiting Resistor?

The ESD Association recommends hard ground with no resistor; however, it is permitted for non-ESD control purposes to include a 1 megohm current limiting resistor. See Grounding standard ANSI/ESD S6.1 section 5.3.3.

In order to clearly identify ground cords with and without resistors, Desco manufactures ground cords with different colored insulation. A green-yellow cord has no resistor and a black cord has an 1 megohm resistor.

WORKSURFACE GROUNDING



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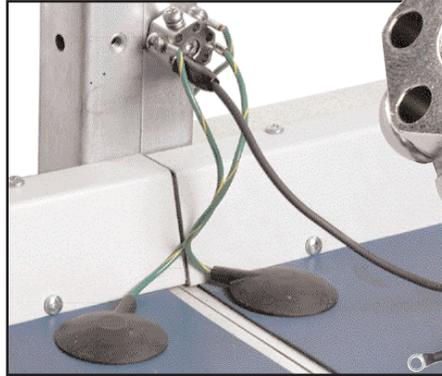
WORKSURFACE GROUNDING

## MULTI GROUNDING HUB

**09837** Without Resistor, 12 Ground Points, 6' Cord

- Six banana jacks and six 10-32 screws with split washer; provides numerous groundable points for wrist straps, carts and other items
- Includes one 6' long ground cord terminated with 0.200" ID #10 ring terminal; allows easy attachment to electrical ground
- Includes mounting hardware, one 10-32 x 1.75" socket headscrew with split washer and nut; easy to install, just drill hole through table top or leg and tighten nut to secure
- Made in America

Drawing 09837,  
Technical Bulletins TB-2003, TB-2000



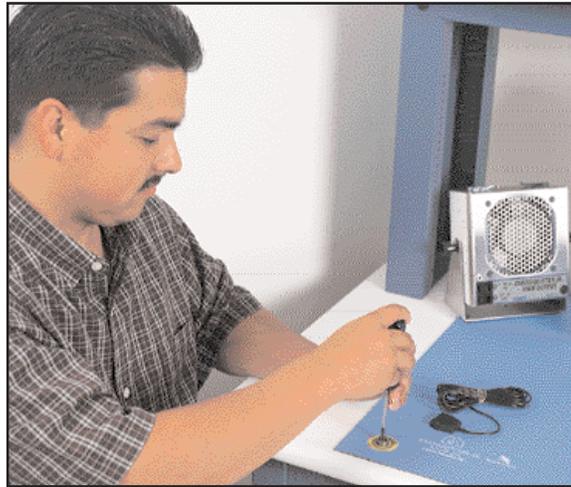
6' Ground cord included  
with Multi Grounding Hub  
(image not to scale)

## UNIVERSAL SNAP KIT

**09864** Universal Snap Kit

- Snap is user installable; allows installation of snap stud or socket exactly where needed
- Kit includes a 10mm stud, 10 mm socket, long screw and short screw; allows for user preference and can be used for a range of mat thickness
- ESD common point ground symbol label; used to indicate the location of an acceptable common point ground as defined by ANSI/ESD S8.1
- Made in America

Drawing 09864, Technical  
Bulletin TB-2000



09864

## PUSH AND CLINCH SNAPS

**09863** 10mm Socket

**09861** 10mm Stud

- Pronged 10mm stud or socket snap
- Choice for matting with buried conductive scrim, i.e. Statfree Z2™
- Push and clinch installation; easy to use; secure installation
- Common point ground symbol label; used to indicate the location of an acceptable common point ground as defined by ANSI/ESD-S8.1
- Made in America

Technical Bulletin TB-2000



09861



09863

## GROUND POINT ADAPTERS

**09700** Alligator Clip

**09750** Large Clip with Banana Jack 10-32 x 1/2" threaded hole accepts standard banana plug or 10-32 thread

**09780** Ring Terminal Banana Jack

**09782** Stacking Snap Banana Jack, 10mm Snap and 10mm Socket

- All adapters designed to accept standard banana plug
- Made in America



09700

09750

09780

09782



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## STATFREE T2™ LEAD-FREE AREA DISSIPATIVE DUAL LAYER RUBBER

### Mat Top Kits

24" x 36" (0.6m x 0.9m)  
24" x 48" (0.6m x 1.2m)

### Green

66057  
66058

Item #14213 Common Point Ground Kit is included with Mat Top Kits.

### Roll

24" x 24' (0.6m x 7.3m)  
30" x 24' (0.76m x 7.3m)  
36" x 24' (0.9m x 7.3m)  
48" x 24' (1.2m x 7.3m)

### Green

66120  
66121  
66122  
66123

Compatible  
for use with  
continuous  
monitors

Grounding Hardware is not included with rolls.  
See pages 24-26 for hardware.

- The green mat is laser engraved "Lead-Free Workstation" to identify the workstation as a Lead-Free work area
- Durable rubber material, dissipative on one side and conductive on the other; versatile and long-lasting dissipative worksurface table mat; bottom conductive layer provides reliable path to ground
- Slows charge removal; meets worksurface required limit of ANSI/ESD S20.20 and recommendations of ANSI/ESD S4.1
- Heat, chemical, and wear resistant
- RoHS compliant
- Made in America

RTT: 10E6 - 10E8 (Dissipative Side) and <10E4 (Conductive Side) ohms per ANSI/ESD S4.1  
Thickness: 0.060" (1.5mm)

Drawing PM-122, Technical Bulletin TB-2000

## STATFREE T2™ PREMIUM DISSIPATIVE DUAL LAYER RUBBER

### Mat Top Kits

24" x 36" (0.6m x 0.9m)  
24" x 48" (0.6m x 1.2m)

### Blue

66040  
66045

### Dark Grey

66050  
66055

### Dark Blue

66051  
66056

Item #14213 Common Point Ground Kit is included with Mat Top Kits.

### Rolls

24" x 40' (0.6m x 12.2m)  
30" x 40' (0.76m x 12.2m)  
36" x 40' (0.76m x 12.2m)  
48" x 40' (1.2m x 12.2m)

### Blue

66070  
66110  
66075  
66095

### Dark Grey

66080  
66105  
66085  
66100

### Dark Blue

66081  
66106  
66086  
66101

Grounding Hardware is not included with rolls.  
See pages 24-26 for hardware.

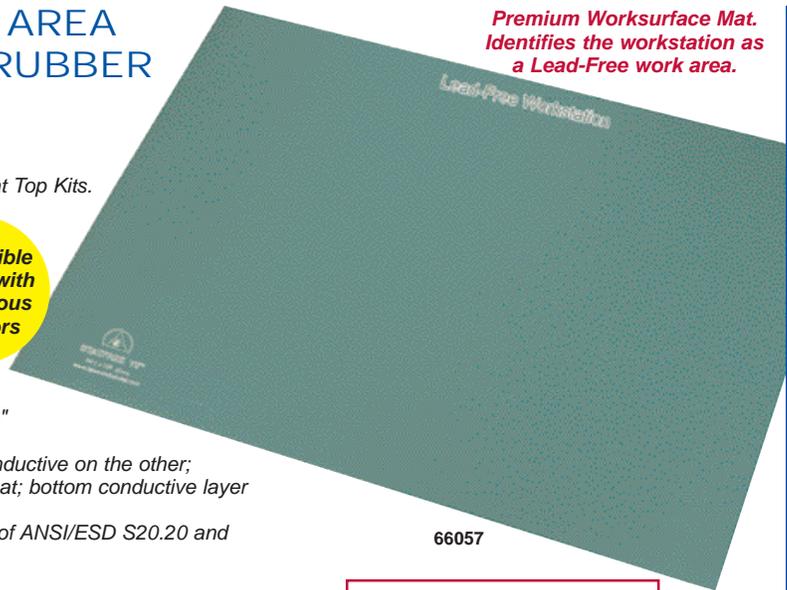
- Durable rubber material, dissipative on one side and conductive on the other; versatile and long-lasting dissipative worksurface table mat. Bottom conductive layer provides reliable path to ground.
- Heat and chemical resistant
- RoHS compliant
- Slows charge removal; meets minimum recommended worksurface required limit of ANSI/ESD S20.20 and recommendations of ANSI/ESD S4.1
- Made in America

RTT: 10E6 - 10E8 (Dissipative Side) and  
<10E4 (Conductive Side) ohms per ANSI/ESD S4.1  
Thickness: 0.060" (1.5mm) and 0.125" (3.2mm)

Drawing PM-104, Technical Bulletin TB-2000

For detailed information on all  
Desco Worksurface Matting, including  
our Worksurface Mat Selection Chart:

[Desco.com/Catalog](http://Desco.com/Catalog)



Premium Worksurface Mat.  
Identifies the workstation as  
a Lead-Free work area.

66057

Look for the Statfree® brand  
on Desco ESD matting -  
for your protection and  
auditing purposes

WORKSURFACE MAT MATERIALS

Premium Worksurface Mat;  
Ideal for Soldering or  
Assembly Areas

Compatible  
for use with  
continuous  
monitors

66040,  
66050,  
66051





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**WORKSURFACE MATTING**

## STATFREE UC™ DISSIPATIVE DUAL LAYER ULTRA CLEAN RUBBER

<b>Rolls</b>	<b>Blue</b>
30" x 40' (0.76m x 12.2m), 2mm thick	<b>66300</b>
24" x 30' (0.61m x 9.1m), 6mm thick	<b>66340</b>
30" x 30' (0.76m x 9.1m), 6mm thick	<b>66350</b>

Grounding Hardware is not included with rolls.  
See pages 24-26 for hardware.

- Developed for cleanrooms; minimal outgassing; this product was tested by a hi-tech manufacturer who approved it for Class 100 Clean Room use. The FTIR testing produced no detectable levels of Silicone or DOP.
- Best application: Clean room, disk drive assembly and repair
- Slows charge removal; meets worksurface required limit of ANSI/ESD S20.20, recommendations of ANSI/ESD S4.1
- Heat, chemical, and wear resistant
- RoHS compliant
- Made in America



**For Use in Class 100  
Clean Rooms**

RTT: 10E6 - 10E8 (Blue top layer) and <10E5 (Black bottom layer) ohms per ANSI/ESD S4.1

Drawing PM-121, Technical Bulletin TB-2000

## STATFREE J™ DISSIPATIVE SHOCK RESISTANT FOAM RUBBER

<b>Mat Top Kit</b>	<b>Black</b>
16" x 24" (0.4m x 0.6m)	<b>45010</b>

<b>Roll</b>	<b>Black</b>
24" x 40' (0.6m x 12.2m)	<b>45000</b>

Grounding Hardware is not included with rolls.  
See pages 24-26 for hardware.

- Resilient non-skid natural foam rubber; perfect for cafeteria trays and cart shelves
- Best application: Liner for ESD trays, totes, mobile cart shelves, drawers, etc.
- Custom sizes available to fit your application
- RoHS compliant
- Made in America



**ESD Cushioning Protects  
Fragile Parts**

RTT: 10E6 - 10E8 ohms per ANSI/ESD S4.1

Drawing PM-114, Technical Bulletin TB-2000

For detailed information on all  
Desco Worksurface Matting, including  
our Worksurface Mat Selection Chart:  
**[Desco.com/Catalog](http://Desco.com/Catalog)**

## STATFREE Z2™ DISSIPATIVE 3 LAYER VINYL

<b>Mat Top Kits</b>	<b>Blue</b>	<b>Grey</b>	<b>Green</b>
24" x 36" (0.6m x 0.9m)	<b>42460</b>	<b>42470</b>	
24" x 48" (0.6m x 1.2m)	<b>42465</b>	<b>42475</b>	<b>42480</b>

Item #14213 Common Point Ground Kit is included with Mat Top Kits.

<b>Rolls</b>	<b>Blue</b>	<b>Grey</b>	<b>Green</b>
24" x 50' (0.6m x 15.2m)	<b>42500</b>	<b>42515</b>	<b>42535</b>
30" x 50' (0.76m x 15.2m)	<b>42516</b>	<b>42517</b>	
36" x 50' (0.9m x 15.2m)	<b>42518</b>	<b>42519</b>	
48" x 50' (1.2m x 15.2m)	<b>42520</b>	<b>42530</b>	

Grounding Hardware is not included with rolls. See pages 24-26 for hardware.

- Heat fused vinyl composite with top and bottom dissipative vinyl layers and conductive grid mesh inner layer; resists delamination; reduces unintended alternative ground paths. Meets ESD worksurface required limit of ANSI/ESD S20.20 and recommendation of ANSI/ESD S4.1.
- RoHS compliant
- Made in America



**Superior Dedicated  
Path-To-Ground Workbench Mat  
Green Mat Specifically for Use in  
Lead-Free Designated Areas**

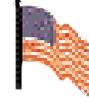
42480, 42460, 42515

RTT: 10E6 - 10E8 ohms per ANSI/ESD S4.1

Drawing PM-112 and Technical Bulletin TB-2000



# DESCO



See our products being  
**Made in America**  
on our web site:  
[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## STATFREE O™ DISSIPATIVE 3-LAYER VINYL

<b>Rolls</b>	<b>Blue</b>
24" x 60' (0.6m x 18.3m)	<b>65000</b>
30" x 60' (0.8m x 18.3m)	<b>65001</b>
36" x 60' (0.9m x 18.3m)	<b>65002</b>

Grounding Hardware is not included with rolls. See pages 24-26 for hardware.

- Thick, energy absorbing; excellent cushioning mat for trays, carts and benches
- As worksurface or shelf mat, protects parts susceptible to physical shock
- Made in America

RTT: 10E6 -10E8 Ohms per ANSI/ESD S4.1

Thickness: 0.375" (9.5mm)

Drawing PM-116 and Technical Bulletin TB-2000

**ESD Cushioning Protects  
Fragile Parts**

Compatible  
for use with  
continuous  
monitors

WORKSURFACE MAT MATERIALS

## STATFREE B2™ DISSIPATIVE 2-LAYER VINYL

<b>Mat Top Kit</b>	<b>Blue</b>	<b>Mat Top Kit</b>	<b>Blue</b>
24" x 36"	<b>66164</b>	30" x 60"	<b>66167</b>
16" x 24" with 1" round corners	<b>66165*</b>	30" x 72"	<b>66168</b>
24" x 48"	<b>66166</b>	36" x 72"	<b>66169</b>

Item #14213 Common Point Ground Kit is included with Mat Top Kits.

\* Does not include 14213 Common Point Ground Kit.

<b>Rolls</b>	<b>Blue</b>
24" x 50'	<b>66160</b>
30" x 50'	<b>66161</b>
36" x 50'	<b>66162</b>
48" x 50'	<b>66163</b>

Grounding Hardware is not included with rolls. See pages 24-26 for hardware.

- Economical choice for use with continuous monitors
- Dissipative surface for consistent charge removal
- Slightly embossed conductive base for reliable path-to-ground
- Made in America

RTT (front side): 10E6-10E8 Ohms per ANSI/ESD S4.1

RTT (back, stipple side): <10E5 ohms per ANSI/ESD S4.1

Thickness: 0.060"

Drawing PM-127 and Technical Bulletin TB-2000

For detailed information on all  
Desco Worksurface Matting, including  
our Worksurface Mat Selection Chart:

[Desco.com/Catalog](http://Desco.com/Catalog)

Compatible  
for use with  
continuous  
monitors

## STATFREE B™ DISSIPATIVE HOMOGENEOUS VINYL

<b>Mat Top Kit</b>	<b>Beige</b>	<b>Blue</b>
24" x 36" (0.6m x 0.9m), 0.100" thick	<b>16201</b>	<b>16213</b>
24" x 48" (0.6m x 1.2m), 0.100" thick	<b>16202</b>	<b>16214</b>

Item #14213 Common Point Ground Kit is included with Mat Top Kits.

<b>Rolls</b>	<b>Beige</b>	<b>Blue</b>
24" x 40' (0.6m x 12.2m), 0.100" thick	<b>16250</b>	<b>16260</b>
24" x 100' (0.6m x 30.5m), 0.100" thick	<b>16251</b>	<b>16261</b>
30" x 40' (0.76m x 12.2m), 0.100" thick	<b>16255</b>	<b>16265</b>
30" x 100' (0.76m x 30.5m), 0.100" thick		<b>16266</b>
36" x 40' (0.9m x 12.2m), 0.100" thick	<b>16280</b>	<b>16282</b>
36" x 100' (0.9m x 30.5m), 0.100" thick		<b>16267</b>
48" x 40' (1.2m x 12.2m), 0.100" thick	<b>16281</b>	<b>16283</b>
24" x 100' (0.6m x 30.5m), 0.060" thick		<b>16290</b>
30" x 100' (0.76m x 30.5m), 0.060" thick		<b>16292</b>
36" x 100' (0.9m x 30.5m), 0.060" thick		<b>16291</b>
48" x 100' (1.2m x 30.5m), 0.060" thick		<b>16293</b>

Grounding Hardware is not included with rolls. See pages 24-26 for hardware.

- Economical, homogeneous vinyl
- RoHS compliant
- Made in America

RTT: 10E8 Ohms per ANSI/ESD S4.1

Thickness: 0.100" (2.5mm) and 0.060" (1.5mm)

Drawing PM-078 and Technical Bulletin TB-2000

0.060" Thick Material is  
Economical Choice for General  
Assembly, Shelving or  
Cafeteria-Style Trays

**IMPROVED**  
Now meets  
minimum S20.20  
requirement

Clean mats with  
Reztore™  
Antistatic Surface  
and Mat Cleaner

See page 23



16201, 16213



# DESCO



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Made in America  
on our web site:  
[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

**WORKSURFACE MATTING**

## MICASTAT® DISSIPATIVE LAMINATE

Sheet Size	Beige	Blue	Grey	White
30" x 10' (0.8m x 3.0m)	10200	10180	10290	10240
30" x 12' (0.8m x 3.7m)	10202*	10181	10291	10242
36" x 8' (0.9m x 2.4m)	10203*	10182	10292*	10243*
36" x 10' (0.9m x 3.0m)	10204	10183	10293	10244
36" x 12' (0.9m x 3.7m)	10206	10184	10294	10246*
48" x 8' (1.2m x 2.4m)	10208	10185	10295	10248
48" x 12' (1.2m x 3.7m)	10212*	10187	10297	10252*
60" x 12' (1.5m x 3.7m)	10215	10190	10300*	10255*

Grounding hardware is not included. See pages 24-26 for hardware.

\* Build to Order (BTO)

Mat Top Size	Beige	Blue	Grey	Green
24" x 36" (0.6m x 0.9m)	10310	10344	10342	10393
24" x 48" (0.6m x 1.2m)	10350	10384	10382	10394

Item #09826 Common Point Ground Cord is included.

Mat top kits feature 1.5" radiused corners, 10mm snap, and peel and stick installation tape.

- High pressure laminate; resistant to hot solder and most solvents; static control properties will continue for the lifetime of the material. Exceeds NEMA standards for wear resistance.
- RoHS compliant
- Made in America

RTT: 10E9 ohms per ANSI/ESD S4.1

**Drawing 10200 and Technical Bulletin TB-2091**

## LAMINATE GROUNDING SYSTEM

**14240** Laminate Grounding System

- Common point ground system for benches with laminate tops; includes one 10 ft. (3.0m) grounding wire with one megohm resistor and ring terminal, and one grounding bolt assembly with single wrist strap banana jack connection terminal.
- Made in America

**Drawing 14240 and Technical Bulletin TB-2091**

## Flush Mount Laminate Ground Insert

**14246** Flush Mount Laminate Ground Insert with 09740 Bench Ground

**14244** Flush Mount Laminate Ground Insert

**14242** Installation Tool for Flush Mount Insert

- Flush-to-the-Surface Ground for Static Dissipative Laminate such as Micastat®; makes a direct connection with the conductive grounding layer of the laminate
- Made in America

**Drawing 14242 and Technical Bulletin TB-2091**

## CARPET GRIPPER TAPE

**45050** Carpet Gripper Tape, 1" x 25 Yard Roll

- Flexible hook tape on one side; secures to carpet
- Adhesive tape on the other side; secures to mat
- Made in America

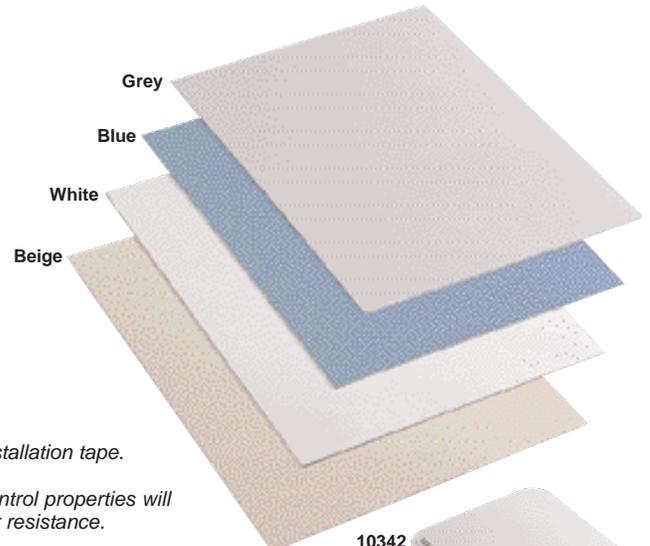
**Drawing 45050**

## DOUBLE SIDED ADHESIVE TAPE

**45015** Double Sided Adhesive Tape, 2" x 750' Roll

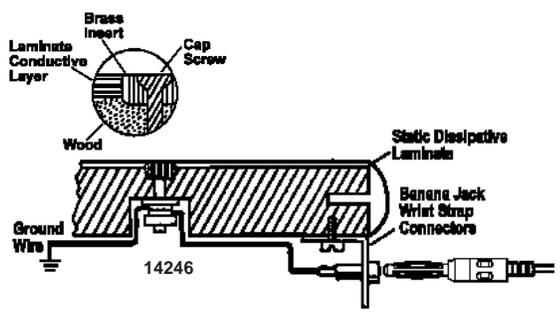
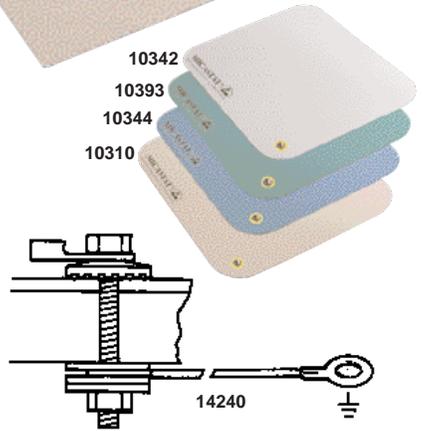
- Pressure sensitive adhesive with release liner; use on mats that slide around or curl and create a tripping hazard; great choice for securing mats to metal carts and workstation surfaces.
- Made in America

**Drawing 45015**



**Micastat® has Lifetime Electricals**

Micastat® has a physical, patented, carbon inner sheet layer that provides its electrical performance. This carbon layer and electrical properties will exist until it is physically removed or destroyed. See Limited Lifetime Warranty at [Desco.com](http://Desco.com).



For detailed information on all  
Desco Worksurface Matting:  
[Desco.com/Catalog](http://Desco.com/Catalog)



# DESCO



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on our web site:  
[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## STATFREE CV™ CONDUCTIVE VINYL

**15006** 48" x 72" (1.2m x 1.8m), 0.125" (3.2mm) thick, Mat  
Includes 14234 ground kit

**15001** 48" x 100' (1.2m x 30.5m), 0.060" (1.5mm) thick, Roll  
**15005** 48" x 40' (1.2m x 12.2m), 0.125" (3.2mm) thick, Roll  
**15000** 48" x 40' (1.2m x 12.2m), 0.060" (1.5mm) thick, Roll

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Guaranteed to lay flat; excellent floor mat on hard surface and carpeted areas using rolling chairs and carts. Provides safe floor allowing personnel, chairs, and carts to pass freely, increasing worker safety.
- Exceeds ANSI/ESD S20.20 required limit of  $< 1 \times 10E9$  ohms for ESD protected flooring and shelving
- Suitable as floor in ANSI ESD STM 97.1 floor-footwear system
- Made in America

RTT: 10E3 - 10E5 ohms per ANSI/ESD S7.1

Thickness: 0.060" (1.5mm) and 0.125" (3.2mm)

Drawing PM-118 and Technical Bulletin TB-2000

*Excellent Floor Mat on Hard Surface & Carpeted Areas Using Rolling Chairs and Carts*



15006

FLOOR MAT MATERIALS

## STATFREE S PLUS™ DISSIPATIVE ANTI-FATIGUE FLOOR RUNNER

**82066** 36" x 60' (0.9m x 18.3m), Roll

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Combines a cross-link vinyl/nitrile rubber construction; three times the resilience of ordinary vinyl foam matting
- Extremely durable embossed surface - safe surface for workers; mat stays clean
- Beveled edges provide added safety; allows people and equipment to pass safely and easily
- Meets ANSI/ESD S20.20 required limit  $< 1 \times 10E9$  ohms for ESD floor
- Made in America

RTT: 10E7 - 10E8 ohms per ANSI/ESD S7.1

Thickness: 0.375" (9.5mm)

Drawing PM-120 and Technical Bulletin TB-2000

*Anti-Fatigue Vinyl/Nitrile Floor Runner*



82066

## STATFREE S™ DISSIPATIVE ANTI-FATIGUE VINYL

**82064** 36" x 60' (0.9m x 18.3m), Grey, Roll

**82063** 36" x 60' (0.9m x 18.3m), Brown, Roll

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Homogeneous foam vinyl; provides economical anti-fatigue properties, improving worker comfort
- For use where meeting ANSI/ESD S20.20 is not a requirement
- Slip resistant and soil resistant heavy embossed texture - safe surface for workers; mat stays clean
- Made in America

RTT: 10E9 - 10E10 ohms per ANSI/ESD S7.1

Thickness: 0.375" (9.5mm)

Drawing PM-071 and Technical Bulletin TB-2000

*Economical Anti-Fatigue Vinyl Mat and Runner*



82063, 82064

For detailed information on all Desco Floor Mats, including our Floor Mat Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

FLOOR MAT MATERIALS

## STATFREE F PLUS™ CONDUCTIVE CORRUGATED VINYL

**16007** 48" x 72" (1.2m x 1.8m), Mat

Includes 14234 ground kit

**16008** 48" x 40' (1.2m x 12.2m), Roll

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Corrugated slip resistant surface; provides excellent environments
- Easy to cut; configure to your requirements
- Black color; hides dirt, lower maintenance
- Exceeds ANSI/ESD S20.20 required limit of  $<1 \times 10^9$  ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Made in America

RTT:  $10E3 - 10E5$  ohms per ANSI/ESD S7.1

Thickness: 0.125" (3.2mm)

Drawing PM-124 and Technical Bulletin TB-2000

*Economical Vinyl For Floor Mats and Runners*



For detailed information on all Desco Floor Mats, including our Floor Mat Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)

## STATFREE A™ CONDUCTIVE INTERLOCKING RUBBER

**40910** Stand-Alone Mat, 28" x 36" (0.7m x 0.9m)  
14234 Ground Kit Included

**40915** Center Section, 28" x 36" (0.7m x 0.9m)

**40920** End Section, 28" x 36" (0.7m x 0.9m)

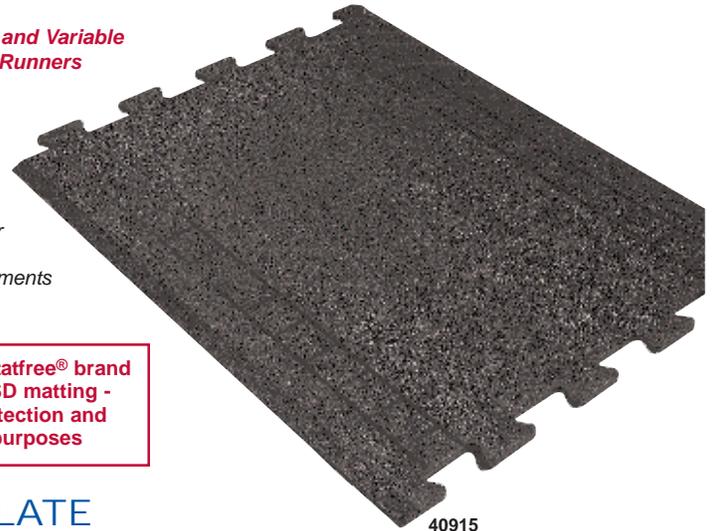
- Interlocking sections; easy to configure custom lengths. Maintains conductivity automatically (up to 5 sections - 15 feet)
- Premium rubber material; resists damage from heat and common solvents - easy to clean and maintain
- Exceeds ANSI/ESD S20.20 required limit of  $<1 \times 10^9$  ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Available as end, middle and stand-alone mat; configure to fit your requirements
- Made in America

RTT:  $10E3 - 10E4$  ohms per ANSI/ESD S7.1

Thickness: 0.50" (12.7mm)

Drawing PM-095 and Technical Bulletin TB-2000

*Economical Mats and Variable Length Aisle Runners*



Look for the Statfree® brand on Desco ESD matting - for your protection and auditing purposes

## STATFREE DPL PLUS™ DIAMOND PLATE

**40980** Floor Mat, 36" x 48" (0.9m x 1.2m)

**40981** Floor Mat, 36" x 60" (0.9m x 1.5m)

Includes 14234 ground kit

**40982** Floor Runner, 36" x 60' (0.9m x 18.3m)

**40983** Floor Runner, 36" x 75' (0.9m x 22.9m)

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Homogeneous vinyl material laminated to double-thick rubber foam base; provides anti-fatigue properties for worker comfort and productivity (excluding 40983, which is mat only)
- Adopted from industrial safety applications; proven safety and anti-fatigue product
- Diamond plate surface; provides traction in wet areas. Suitable for the movement of rolling carts.
- Exceeds ANSI/ESD S20.20 required limit of  $<1 \times 10^9$  ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Made in America

RTT:  $10E3 - 10E5$  ohms per ANSI/ESD S7.1

Thickness: 0.45" (11.4mm) for items 40980, 40981, 40982  
0.225" (5.7mm) for item 40983

Drawing PM-125, PM-126 and Technical Bulletin TB-2000

*Excellent Conductive Anti-Fatigue Floor Mat*





# DESCO



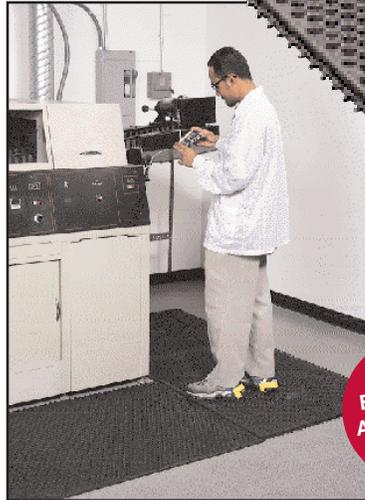
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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## STATFREE i™ CONDUCTIVE ERGONOMIC RUBBER INTERLOCKING ROOM SYSTEM

**40930** 24" x 36" (0.6m x 0.9m) Section  
**40931** 36" x 48" (0.9m x 1.2m) Section

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Ergonomic design dome/support cell structure; suspended bounce feel, and matrix of "tri-radial" supports firming up as weight is applied improves worker comfort and productivity
- Durable homogenous rubber; chemical resistant, will never delaminate
- Patented interlocking strip (Patent No. 5,630,304); easily configures to fit your requirements; no need to order special lengths
- Exceeds ANSI/ESD S20.20 required limit of <math>1 \times 10^9</math> ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Superior warranty - limited lifetime and 8 year ergonomic warranty. See [Desco.com](http://Desco.com) for details.
- Made in America



**NEW Superior Warranty**

**FLOOR MAT MATERIALS**

40930

**Superior Ergonomic Anti-Fatigue Properties**

RTT: 10E4 - 10E5 ohms per ANSI/ESD S7.1  
Thickness: 0.50" (12.7mm)

Drawing PM-107 and Technical Bulletin TB-2000

## STATFREE i FUSED™ CONDUCTIVE ERGONOMIC RUBBER FLOORING SYSTEM

**40950** 2' wide in 3' length increments up to 120 feet  
**40951** 3' wide in 2' length increments up to 120 feet  
**40952** 4' wide in 3' length increments up to 120 feet  
**40953** 6' wide in 2' length increments up to 60 feet  
**40954** 8' wide in 3' length increments up to 60 feet

Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- See Statfree® i features and benefits
- Various lengths are manufactured by chemically bonding seams, creating many length sections in over 200 sizes; creates safe floor allowing personnel, to pass freely, increasing worker safety.
- Exceeds ANSI/ESD S20.20 required limit of <math>1 \times 10^9</math> ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Superior warranty - limited lifetime and 8 year ergonomic warranty. See [Desco.com](http://Desco.com) for details.
- Made in America

RTT: 10E4 - 10E5 ohms per ANSI/ESD S7.1  
Thickness: 0.50" (12.7mm)

Drawing PM-119 and Technical Bulletin TB-2000



**Use where floor runners are needed**

40952



Measure RTT and RTG of your floors with our 19780 Surface Resistance Test Kit.  
**See page 43**

For detailed information on all Desco Floor Mats, including our Floor Mat Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

FLOOR MAT MATERIALS

## STATFREE EB™ CONDUCTIVE ERGONOMIC RUBBER

**40935** Stand-Alone Mat, 36" x 60" (0.9m x 1.5m)  
Grounding Hardware not included with rolls.  
See pages 24-26 for hardware.

- Ergonomic bubble air cell design; improves worker comfort and productivity
- Firm support gives, but stays cleaner; sharper looking facility with lower maintenance costs
- Exceeds ANSI/ESD S20.20 required limit of  $<1 \times 10E9$  ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Made in America

RTT: 10E3 - 10E5 ohms per ANSI/ESD S7.1  
Thickness: 0.50" (12.7mm)

Drawing PM-117 and Technical Bulletin TB-2000

For detailed information on all  
Desco Floor Mats, including our  
Floor Mat Selection Chart:

[Desco.com/Catalog](http://Desco.com/Catalog)



Premium Choice for  
Ergonomic Floor Mat

## STATFREE G2™ CONDUCTIVE SMOOTH RUBBER

**82067** 48" x 72" (1.2m x 1.8m), Mat  
Includes 14234 ground kit

**82068** 48" x 40' (1.2m x 12.2m), Roll  
Grounding Hardware not included with rolls. See pages 24-26 for hardware.

- Heat, chemical and abrasion resistant; excellent floor mat for around wave solder machines and other challenging manufacturing environments
- Easy to cut; configure to fit your requirements
- Durable homogeneous rubber; will never delaminate
- Exceeds ANSI/ESD S20.20 required limit of  $<1 \times 10E9$  ohms for ESD floor
- Suitable as floor in ANSI/ESD STM 97.1 floor-footwear system
- Made in America

RTT: 10E3 - 10E5 ohms per ANSI/ESD S7.1  
Thickness: 0.060" (1.5mm)

Drawing PM-106 and Technical Bulletin TB-2000

Durable for High  
Traffic Areas

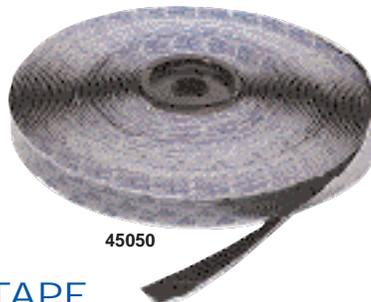


## CARPET GRIPPER TAPE

**45050** Carpet Gripper Tape, 1" x 25 yrd Roll

- Flexible hook tape on one side; secures to carpet
- Adhesive tape on the other side; secures to mat
- Made in America

Drawing 45050



## DOUBLE SIDED ADHESIVE TAPE

**45015** Double Sided Adhesive Tape, 2" x 750' Roll

- Pressure sensitive adhesive with release liner; use on mats that slide around or curl and create a tripping hazard; great choice for securing mats to metal carts and workstation surfaces.
- Made in America

Drawing 45015





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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## STATSHIELD® PREMIUM METAL IN GREEN ESD SHIELDING BAGS

Without Zipper		Without Zipper		Without Zipper	
Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)
12780	4" x 6"	12785	10" x 12"	12789	15" x 18"
12781	5" x 8"	12786	10" x 14"	12790	18" x 18"
12782	6" x 10"	12787	10" x 24"	12791	18" x 24"
12783	8" x 10"	12792	12" x 16"		
12784	8" x 12"	12788	12" x 18"		

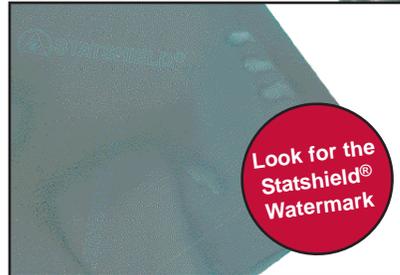
- Appropriate ESD packaging for Lead-Free RoHS products
- ESD Shielding; the best ESD Shielding Faraday Cage effect
- Provides easy identification of Lead-Free assemblies and components in the manufacturing process
- Integral antistatic, low tribocharging properties
- Identified with ESD Protective Symbol and RoHS compliant lead-free symbol
- Meets ANSI/ESD S20.20 and MIL-PRF-81705D Type III
- Static shielding energy penetration <15nJ ANSI/ESD S11.31
- Proprietary film
- Made in America

**Outer Surface:** <10E10 ohms  
**Aluminum Layer:** <10E2 ohms  
**Inner Surface:** <10E10 ohms  
 Per ANSI/ESD S11.11

**Thickness:** .003" (Nominal ± 10%)

**Drawing 12780 and MSDS TB-7024**

*All Desco bags are  
RoHS compliant*



Desco bags are recyclable

12783

## STATSHIELD® HI-STRENGTH DIP TUBE METAL IN BAGS

Without Zipper	
Item	Size (W x L)
13920	4" x 25"
13921	4" x 30"
13922	8" x 25"
13923	8" x 30"
13924	10" x 25"
13925	10" x 30"

**For detailed information on all  
Desco Shielding Bags, including  
our Bag Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)**

- Reinforced strength designed for packaging dip tubes; eliminates puncture problems with standard Type III shielding bags when packaging Dip Rail Tubes
- Puncture resistance >19 pounds
- Meets ANSI/ESD S20.20 and Mil-PRF-81705D Type III
- Integral antistatic, low tribocharging properties; bag contents will not electrostatically charge during movement
- Static shielding energy penetration <15nJ ANSI/ESD S11.31
- Made in America

**Thickness:** .0031" (Nominal ± 10%)

**Drawing 13920 and MSDS TB-7024**

We recommend closing bags with ESD susceptibility labels.  
 Per ANSI/ESD S8.1 paragraph 3.1 ESD Susceptibility Symbol  
 Application "The Symbol may be incorporated on a sticker used to  
 close or seal ESD protective packaging to indicate that materials inside  
 the package are ESD susceptible."

**For labels, see page 38**



13923

**Let Us  
Show You  
How to  
Reduce  
Your Cost of  
Packaging**

**SHIELDING BAGS**

**Mixed Unsortable Plastic Scrap**  
 Mixed unsortable plastic scrap shall contain assorted plastics of multiple grades that are co-extruded, bonded or laminated together which are unsortable into individual grades.  
**Desco's bags are recyclable**





# DESCO



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SHIELDING BAGS

## STATSHIELD® TRANSPARENT METAL IN STANDARD ESD SHIELDING BAGS

With Zipper		With Zipper		Without Zipper		Without Zipper	
Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)
13605	3" x 5"	13670	10" x 12"	13415	4" x 6"	13475	10" x 14"
13615	4" x 6"	13700	12" x 16"	13430	5" x 8"	13500	12" x 16"
13630	5" x 8"	13705	12" x 18"	13445	6" x 10"	13505	12" x 18"
13640	6" x 8"	13715	15" x 18"	13465	8" x 12"	13515	15" x 18"
13660	8" x 10"	13725	18" x 24"	13470	10" x 12"	13524	18" x 24"

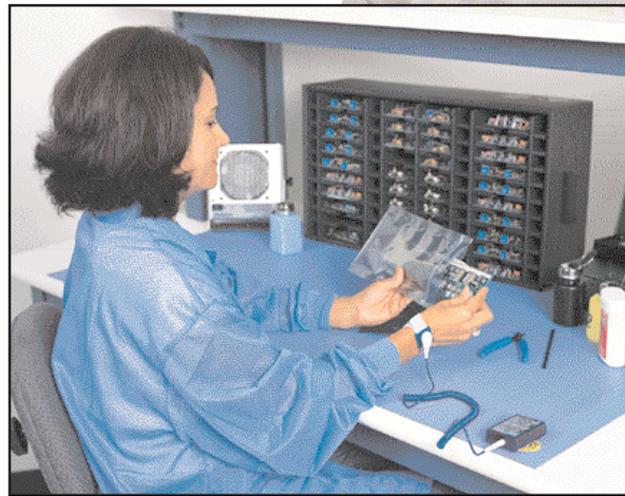
- Shields ESD sensitive items from charges and discharges
- Choice for shipping outside ESD protected area
- Most commonly used shielding bag; high volume manufacturing provides value for the customer
- Meets ANSI/ESD S20.20 and Mil-PRF-81705D Type III
- 40% light transmission; allows for easy identification of bag contents
- Integral static dissipative properties; not topically treated, not humidity dependent, won't wear off
- RoHS compliant
- Made in America

Resistance of outer surface: <10E11 ohms  
Resistance of metal layer: <10E2 ohms  
Resistance of inner surface: <10E11 ohms  
Per ANSI/ESD S11.11

Thickness: .003" (Nominal ± 10%)

Drawing 13605 (Antistatic Zipper) and Drawing 13405 (Without Zipper), MSDS TB-7024

For detailed information on all Desco Shielding Bags, including our Bag Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



More Bag Sizes at [Desco.com](http://Desco.com)



13465

## STATSHIELD® TRANSPARENT METAL OUT ESD SHIELDING BAGS

With Zipper		With Zipper		Without Zipper		Without Zipper	
Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)
13205	3" x 5"	13270	10" x 12"	13010	3" x 5"	13075	10" x 12"
13215	4" x 6"	13275	10" x 14"	13020	4" x 6"	13080	10" x 14"
13230	5" x 8"	13300	12" x 16"	13050	6" x 10"	13090	10" x 24"
13245	6" x 10"	13315	15" x 18"	13065	8" x 10"	13115	12" x 18"
13262	8" x 10"	13325	18" x 24"	13070	8" x 12"	13125	15" x 18"

- Shields ESD sensitive items from charges and discharges
- Choice for shipping outside ESD protected area
- Provides rapid charge draining when placed on a dissipative worksurface
- Aluminum metal outer layer of laminated film; metal out required by many end users
- Meets ANSI/ESD S20.20 and Mil-PRF-81705D Type III
- 40% light transmission; allows for identification of bag contents
- RoHS compliant
- Made in America

Resistance of outer surface: <10E8 ohms  
Resistance of metal layer: <10E2 ohms  
Resistance of inner surface: <10E11 ohms  
Per ANSI/ESD S11.11

Thickness: .003" (Nominal ± 10%)

Drawing 13205 (Anti-Static Zipper) and Drawing 13010 (Without Zipper), MSDS TB-7025

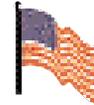
More Bag Sizes at [Desco.com](http://Desco.com)



13065



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## STATSHIELD® FOIL MOISTURE BARRIER BAGS

Item	Size (W x L)
13950	10" x 20"
13951	10" x 30"
13952	12" x 20"
13953	14" x 16"
13954	16" x 18"
13955	18" x 20"

- WVTR <0.0003 grams per ASTM F1249-90
- ESD/EMI/RFI provides high frequency protection and static shielding
- Meets JEDEC-STD-033B and ANSI/ESD S20.20
- >25 PSI puncture resistance (lbf)
- Meets flex durability F392-93 condition E test
- Excellent choice for moisture barrier protection
- Ideal for vacuum packaging and nitrogen flushing
- Meets Mil-PRF-81705D Type I
- Made in America

Thickness: .004" (Nominal ± 10%)

Drawing 13950



For detailed information on all  
Desco Shielding Bags, including  
our Bag Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



13950

MOISTURE BARRIER BAGS

## STATSHIELD® ESD MOISTURE BARRIER BAGS

Item	Size (W x L)	Item	Size (W x L)
13805	4" x 24"	13822	10" x 30"
13806	5" x 8"	13824	12" x 16"
13808	6" x 10"	13826	12" x 18"
13810	6" x 24"	13828	15" x 18"
13811	6" x 30"	13829	16" x 18"
13812	8" x 10"	13830	18" x 18"
13816	10" x 12"	13832	18" x 24"
13820	10" x 24"		

- < 0.02 grams MVTR
- ESD/EMI provides high frequency protection and static shielding
- >20lb puncture strength
- Choice to protect ESD and/or moisture sensitive items
- ESD Shielding meets ANSI/ESD S20.20
- EMI shielding; meets requirements of Mil-PRF-81705D Type I
- Integral antistatic, low tribocharging properties; bag contents will not electrostatically charge during movement
- Made in America

Thickness: .0035" (Nominal ± 10%)

Drawing 13806 and Technical Bulletin TB-2031



13808

## STATSHIELD® ESD HIGH PUNCTURE BARRIER BAGS

Item	Size (W x L)	Item	Size (W x L)
13760	4" x 6"	13766	10" x 30"
13761	5" x 8"	13767	12" x 16"
13762	6" x 10"	13768	15" x 18"
13763	8" x 10"	13769	18" x 18"
13764	10" x 12"	13770	18" x 24"
13765	10" x 24"		

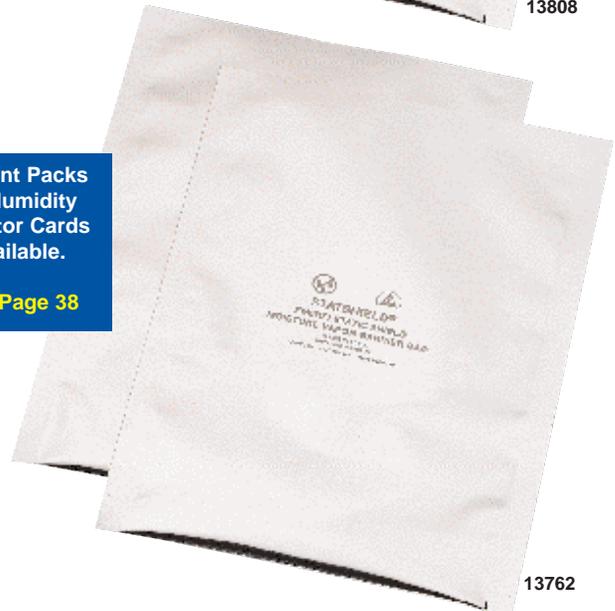
- > 30lb puncture strength
- Superior packaging protection; ≤0.005 grams MVTR
- ESD/EMI provides high frequency protection and static shielding
- Choice to protect ESD and/or moisture sensitive items
- ESD Shielding meets ANSI/ESD S20.20
- EMI Shielding; meets requirements of Mil-PRF-81705D Type I
- Integral antistatic, low tribocharging properties; bag contents will not electrostatically charge during movement
- Made in America

Thickness: .0065" (Nominal ± 10%)

Drawing 13760 and Technical Bulletin TB-2031

Desiccant Packs  
and Humidity  
Indicator Cards  
Available.

See Page 38



13762



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SHIELDING BAGS

## STATFREE® ULTRA CLEAR ESD BARRIER BAGS

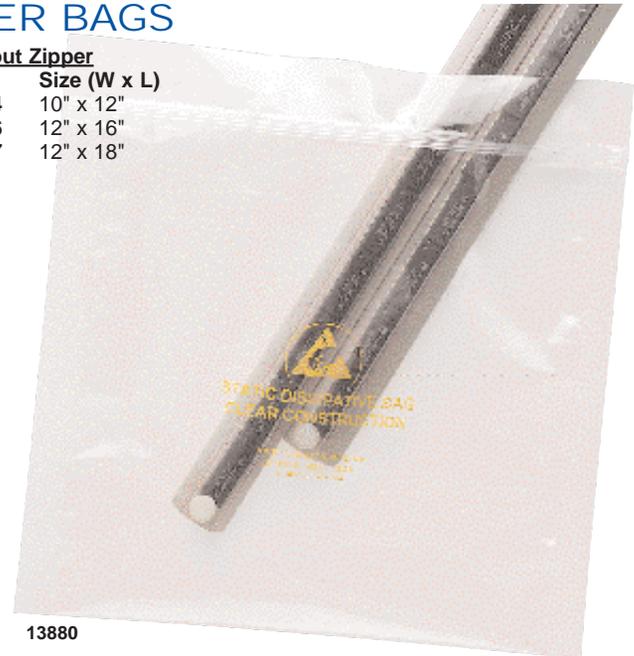
With Zipper		With Zipper		Without Zipper		Without Zipper	
Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)	Item	Size (W x L)
13879	3" x 5"	13883	10" x 12"	13878	3" x 5"	13874	10" x 12"
13880	4" x 6"	13884	12" x 16"	13871	4" x 6"	13876	12" x 16"
13881	5" x 8"	13885	12" x 18"	13872	5" x 8"	13877	12" x 18"
13882	8" x 10"			13873	8" x 10"		

- Choice where shielding is not required for packaging ESD sensitive items or non-ESD items in ESD protected area
- Static dissipative, meets Mil-PRF-81705D Type II; superior choice over blue and pink poly bags
- Integral static dissipative properties; not topically treated, not humidity dependent, won't wear off
- RoHS compliant
- Made in America

Resistance of inner and outer layer: <math>10^{11}</math> ohms per ANSI/ESD S11.11  
Thickness: .0035" (Nominal  $\pm$  10%)

Drawing 13880

For detailed information on all  
Desco Shielding Bags, including  
our Bag Selection Chart:  
[Desco.com/Catalog](http://Desco.com/Catalog)



13880

## DESICCANT PACKS AND HUMIDITY INDICATOR CARDS

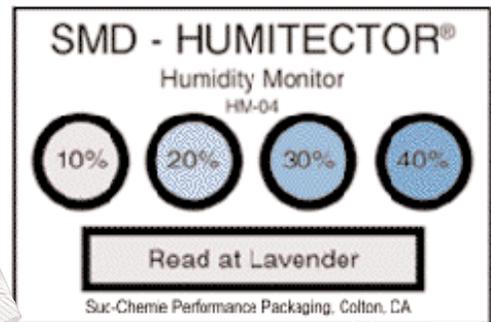
- 13870 Humidity Indicator, 10% 20% 30% 40% RH, Can/100 per MIL-I-8835
- 13868 Humidity Indicator, 5% 10% 15% RH, Can/125 J-STD-033A
- 13869 Humidity Indicator, 5% 10% 60% RH, Can/125 J-STD-033B
- 13840 Desiccant Pack 1/2 Unit, Box of 700
- 13850 Desiccant Pack, 1/2 Unit, Pail of 550
- 13842 Desiccant Pack, 1 Unit, Box of 500
- 13852 Desiccant Pack, 1 Unit, Pail of 300

- MBB bag to protect contents
- Desiccant to absorb moisture
- Humidity indicator to monitor performance
- Made in America

Drawings 13850, 13870 and Technical Bulletin TB-2031



13852



13870

## LABELS

- 06770 Contains ESDS Label, 2" wide x 3/4" high
- 06727 Caution Label, MIL-STD-129N, 2" x 2"
- 06722 Susceptibility Label, RS-471, 2" x 2"
- 06723 Susceptibility Label, RS-471, Spanish, 2" x 2"
- 06725 Susceptibility Label, RS-471, Reusable, 1" x 2"
- 06730 Susceptibility Label, RS-471, Reusable, 2" x 2"
- 06732 Moisture Sensitive Caution Label, 3" x 3"

- Rolls, adhesive-backed labels (500 per roll, except item 06732 is 250 per roll)
- Use 06722, 06723, 06725, 06730, 06727 labels to identify ESD sensitive items when ESD handling precautions are required
- Use 06770 label to identify equipment that when opened has ESD sensitive (ESDS) items that are susceptible to ESD damage
- Use 06732 label with dry packaging applications; meets both J-STD-033 and JEP 113 requirements

Drawings 06770, 06727, 06722, 06732

For detailed information on all Desco labels:  
[Desco.com](http://Desco.com)



06727



06725



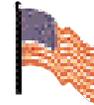
06732



06770



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## ANTISTATIC TAPES

A Desco Industries Inc. Brand



**New and Improved Antistatic Cellulose Tape**

- Greater temperature range: 14°F - 160°F
- Non sloughing plastic core available
- New style: Clear with symbols and yellow stripe

**Replace High Charging Regular Tape with Wescorp Antistatic Tape**

- Antistatic Cellulose Tape for general purpose applications; available as clear and with ESD symbols
- Antistatic Conductive Shielding Grid Tape for applications requiring EMI shielding
- Antistatic High Temp Masking Tape for applications masking PCB gold features for wave soldering
- Antistatic High Temp Polyimide Tape for higher temperature applications masking PCB gold features for wave soldering and IR reflow ovens

**Drawings 79200, 81220, 81250, 81260, 81270 and 81282, Technical Bulletin TB-3010**

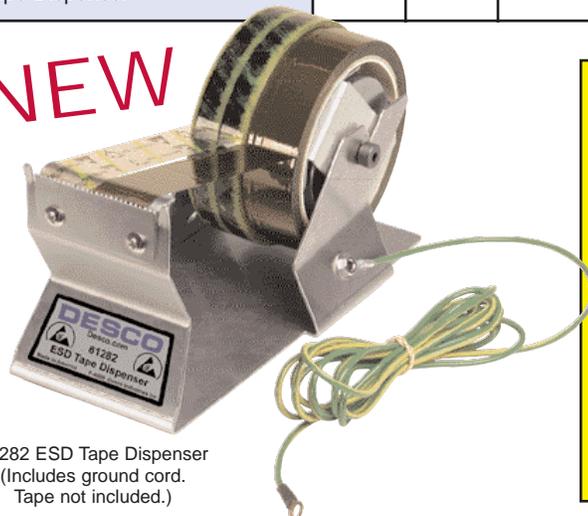
**Note:** Tapes store best when laid flat in a dry, well ventilated room with a reasonably consistent temperature of 20° C (68° F) and are protected from exposure to direct sunlight.

\*Tape widths are nominal metric ±0.8mm(±.030")

**For detailed information on all Desco Tape and Tape Dispenser: [Desco.com/Catalog](http://Desco.com/Catalog)**

Tape*	0.25"	0.5"	0.75"	1"	2"	Core	Length
Antistatic Clear Cellulose, Paper Core		81220	81222	81224		1"	36 yds
		81221	81223	81225	81226	3"	72 yds
Antistatic Clear Cellulose, Plastic Core		79200	79201	79202		1"	36 yds
		79203	79204	79205	79206	3"	72 yds
Antistatic Clear Cellulose, with Symbols, Paper Core		81227	81228	81229	81230	3"	72 yds
Antistatic Clear Cellulose, with Symbols, Plastic Core		79209	79210	79211	79212	3"	72 yds
Antistatic Clear Cellulose, with Symbols and Yellow Stripe, Plastic Core		79275	79276	79277	79278	3"	72 yds
Antistatic Conductive Shielding Grid, Paper Core		81250	81251	81252	81253	3"	36 m
Antistatic High Temp Masking, Paper Core		81260	81261	81262		3"	60 yds
Antistatic High Temp Polyimide, Plastic Core	81270	81271	81272	81273		3"	36 yds
Tape Dispenser					81282	3"	

# NEW



81282 ESD Tape Dispenser (Includes ground cord. Tape not included.)

### ESD TAPE DISPENSER

- Groundable housing and hardware - all components to ESD tape dispenser can be grounded with ground cord to be used in ESDS Protected Area
- Heavy Stainless steel construction minimizes foreign object debris, corrosion, and other contamination when used in clean or sensitive areas
- Separate spools turn independently; holds one 2-inch wide roll of tape or two rolls of tape that are 1-inch wide or less
- Made in America

**Statfree® Conductive Foam**



Desco's 12150-12660 Statfree® Conductive Foam is groundable and low tribocharging, antistatic packaging foam that minimizes charge generation. For complete details, visit:

**[Desco.com](http://Desco.com)**

ANTISTATIC TAPE



# DESCO



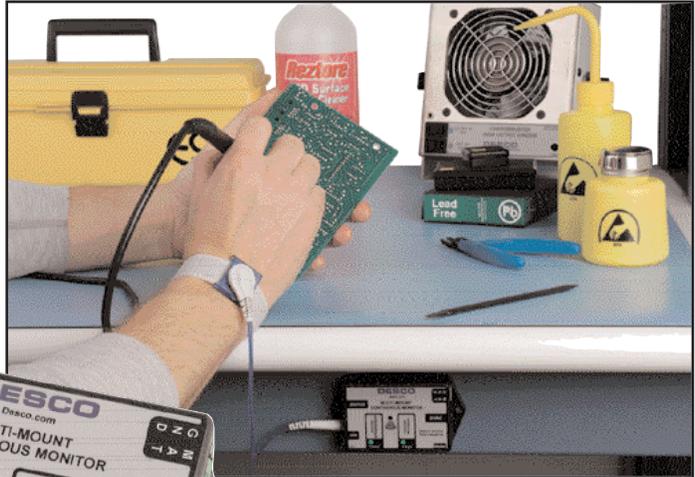
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CONTINUOUS MONITORS

## MULTI-MOUNT CONTINUOUS MONITOR

- 19226 Multi-Mount Continuous Monitor, 120V
- 19227 Multi-Mount Continuous Monitor, 220V

- Designed to mount on equipment where worksurface monitoring is optional or not required. Monitors operator - reducing catastrophic and latent defects.
- Housing has tabs with holes, with screws and adhesive backed Velcro® strips provided; optional mounting means unit is suitable to most any machinery or work, even in hard to reach locations
- Audible and LED visual alarms the instant a failure occurs; alerting user and supervisor of problem, allowing immediate corrective action
- Can be used with any brand single-wire wrist strap
- Made in America



19226

**Note:** Continuous Monitors require worksurface with conductive layer.  
  
**See Worksurface Mats on Page 27**

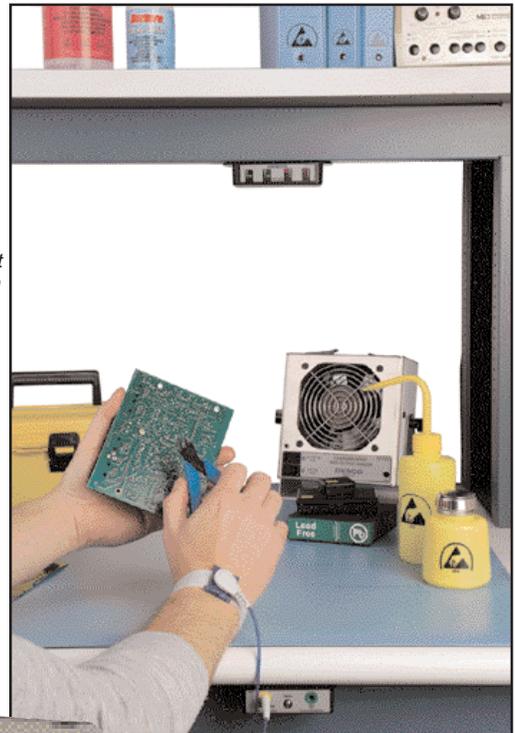
**For detailed information on all Desco Continuous Monitors:**  
[Desco.com/Catalog](http://Desco.com/Catalog)

## DUAL OPERATOR WORKSTATION CONTINUOUS MONITOR WITH SATELLITES

- 19232 Dual Operator Continuous Monitor with Split Remote Modules, 120 Volt
- 19233 Dual Operator Continuous Monitor with Split Remote Modules, 220 Volt

- Control Unit LEDs indicate proper grounding of two mats and two operators; allows mounting Control Unit at eye level, not using any work surface area; illuminated LEDs continuously display grounding status
- Two Satellite Remote Monitors include monitored wrist strap ground, parking stud, and unmonitored ground for guest or equipment; versatile design allowing placement where desired up to 7 feet from control unit. Red LED will illuminate, but audio alarm will not sound when wrist strap coil cord is snapped on parking stud.
- Can be used with any brand single-wire wrist strap
- Wave Distortion Technology provides real-time monitoring; pays for itself - ensures ESD protected workstation, reducing catastrophic failures and latent defects
- Made in America

**Technical Bulletin TB-3018**



19232



# DESCO

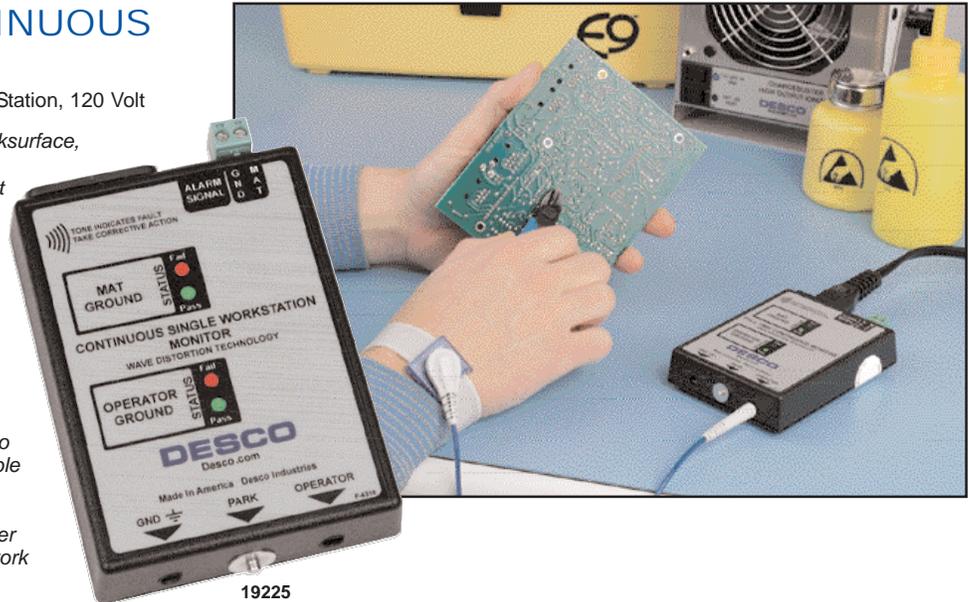


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## FULL TIME CONTINUOUS MONITOR

**19225** Continuous Monitor, Single Station, 120 Volt

- Monitor one operator, one ESD worksurface, and one ground
- Alarm signal status; used to connect to light tower; allows additional workstation status above work environment
- IEC receptacle; allows easy cord installation and replacement
- Verifies proper wiring of AC outlet and ESD ground integrity
- Ensures electrical ground, operator ground, and mat circuit are all grounded to the same potential
- Two pin terminal block allows user to monitor and ground worksurface table mat or laminate worksurfaces
- Ongoing ground monitoring of ESD protective workstation; verifies proper grounding of outlet, operator, and work surface
- Made in America



19225

CONTINUOUS MONITORS

**Technical Bulletin TB-3025**



Use Dual-Wire Continuous Monitor with Desco's Dual-Wire wrist straps  
[See page 9-10](#)



### MONITOR CALIBRATION UNIT

For additional product selection and to calibrate your monitors, see the EMIT 50512 Monitor Calibration Unit on the EMIT web site: [DescoEMIT.com](http://DescoEMIT.com)

## Jewel® WORKSTATION CONTINUOUS MINI MONITOR

**19212** Continuous Monitor, Sapphire, 120 Volt

- Monitors one operator and one ESD worksurface
- Small size - 2.77" x 2.07" (7cm x 5cm); snaps to mat, taking up minimal worksurface area
- Stand-by parking snap; keeps unit from going into alarm when user disconnects cord
- Can use with any brand single-wire wrist strap
- Wave Distortion Technology provides real-time monitoring; pays for itself - ensures ESD protected workstation, reducing catastrophic failures and latent defects
- Where continuous monitoring is used, wrist strap testing is not required per ESD S1.1
- Made in America

**Technical Bulletin TB-3004**



19212

## DUAL WIRE CONTINUOUS WORKSTATION MONITOR

**19665** Dual-Wire Continuous Monitor

- Monitoring of two operators and two ground connections independently; able to maintain two work operators and two work surfaces at the same time to eliminate the risk of ESD damage from undetected wrist strap assembly failures
- Patented Resistance Loop Monitoring Technology; provides continuous testing and verification of operator's connection to the ground
- Use with dual-wire wrist straps
- Independent alarming conditions: Audible and visual; operator will be able to see alarm if noise level is high, or in contrast, able to hear the alarm without looking at monitor
- Made in America



19665

For detailed information on all  
Desco Continuous Monitors:  
[Desco.com/Catalog](http://Desco.com/Catalog)

**Technical Bulletin TB-3019**



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**TESTERS**

## COMBO TESTER X3

- 19276 Combo Tester X3 with Dual Footplate
- 19277 Combo Tester X3 with Stand
- 19255 Stand for Use with Combo Tester X3
- 19254 Combo Tester X3 Programmer

**NEW!**

- Wrist strap and ESD footwear testing
- Solid State Switch has no moving parts and withstands usage without failure
- Three tests at same time; touch Solid State Switch once to test wrist strap and footwear independently
- 30 volt test provides more accurate measurements
- Split footplate design
- Independent alarming conditions
- Relay for door locking systems
- Test either single-wire or dual-wire wrist straps per ESD TR53
- Programmer (19254) available to quickly change limits or for calibration
- Made in America

**Wrist Strap Range:**  
750 kilohms - 10 megohms  
**Footwear Range:**  
750 kilohms - 35 megohms

**Technical Bulletins TB-3034  
(Combo Tester) and  
TB-3035 (Programmer)**



19276



19277



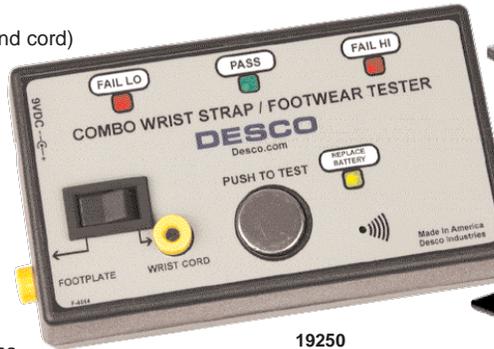
## COMBO TESTER

- 19250 Combo Tester, 9 Volt Battery
- 19252 Combo Tester with Stand
- 19253 Combo Tester with Footplate
- 98273 Footplate for Combo Tester (includes molded footplate and ground cord)
- 98254 Stand, For Use With Combo Tester

- Dual test circuits; versatile, can test footwear or single-wire wrist straps per ESD TR53
- Positive rocker selection switch; reliably changes test mode
- Red light and audible alarm; indicates that circuit resistance is too high or too low
- Battery powered with low-battery indicator; provides early warning to replace battery
- Made in America

**Wrist Strap Range:** 750 kilohms - 10 megohms  
**Footwear Range:** 750 kilohms - 100 megohms

**Technical Bulletin TB-2040**



19250



19252



19253

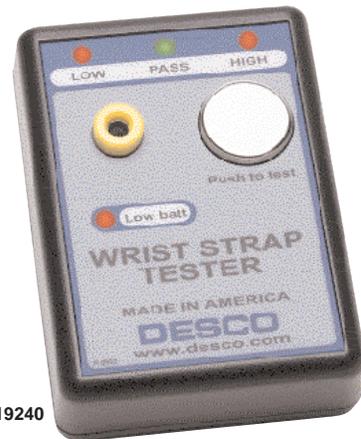
**For detailed information on  
all Desco Testers:  
[Desco.com/Catalog](http://Desco.com/Catalog)**

## WRIST STRAP TESTER

- 19240 Touch Tester, 9 VDC

- Portable small package; supervisor can use to spot check users on shop floor
- For use with single-wire wrist straps per ESD TR53
- Battery powered 9 volt tester; no adapter needed
- Test results include Fail Low, Pass, and Fail High; if wrist strap fails, the operator will know if the failure is too high or too low
- Test can be performed during normal use at the workstation; improved productivity, workers can test without having to leave the workstation
- Range: 750 kilohms - 10 megohms
- Made in America

**Technical Bulletin TB-3017**



19240



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## SURFACE RESISTANCE TEST KIT

- 19780** Surface Resistance Test Kit
- 19781** Surface Resistance Tester, No Electrodes

- Accurately measures RTT or RTG for quick checks, factory audits, or test lab evaluation of product per Compliance Verification ESD TR53
- Versatile tool - measures surface resistance as exponent number and illuminates immediately, but designed to measure for full 15 second electrification period and exceeds accuracy requirements of ANSI/ESD S4.1
- Used to test compliance verification per ESD TR-S3, worksurfaces and shelves S4.1, floors S7.1, garments S2.1, seating ESD STM12.1, and flooring footwear STM97.1
- Meter measures ambient temperature and relative humidity; available when required for test records
- Color coded LED and digital LCD read-out; easy to read, no interpretation needed; can easily be used for quick go/no go checks
- Automatic Test Range Voltage Selection; in accordance with ESD Association standard, meter will test at 10 volts and automatically switch to 100 volts if over 10E5 ohms
- Surface resistance exponent always displayed if test button is depressed
- Power Supply: Two AA alkaline batteries
- Monitoring and control instruments out of the scope of RoHS
- Made in America



19780

Technical Bulletin TB-3014

For detailed information on  
all Desco testers:  
[Desco.com/Catalog](http://Desco.com/Catalog)



## μMEG™ POCKET MEGOHMMETER

- 19635** Micromeg Tester

- Small, convenient pocket-size; perfect for fast spot-checking of dissipative and conductive surfaces per Compliance Verification ESD TR53
- Replaceable 9 volt battery; easy operator replacement
- Cable for resistance-to-ground measurements is included; Unit is able to measure resistance-to-ground (RTG)
- Surface Resistivity: Range to 10E10 Ohms
- Surface-to-Ground Resistance (RTG): Range to 10E9 Ohms
- Made in America

Technical Bulletin TB-2083



19635

TESTERS



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**TESTERS**

## DIGITAL FIELD METER

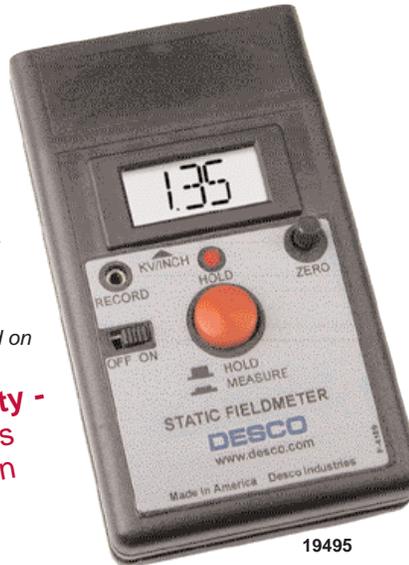
- 19495 Digital Static Field Meter
- 19448 Conductive Plate for Field Meter
- 19498 Personal HBM Test Fixture

**NEW!**

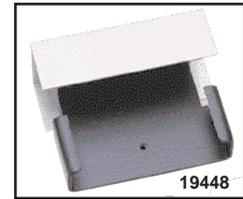
- Portable static locator is an effective problem solving tool identifying items that are able to be changed
- Optical distance indicator ensures accuracy and repeatability
- "Hold" button allows the measurements to be retained for easy reading
- Auto-ranging; easy to use and operate, no adjustments
- LCD display is easy to read; no interpretation necessary
- 19498 allows user to approximate electrical charges generated on the human body while walking or moving
- 1-year limited warranty
- Made in America

Technical Bulletin TB-3029

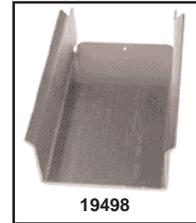
**Increased Durability -  
Now Incorporates  
Shock Protection**



19495



19448



19498

## IONIZATION TEST KIT

- 19496 Complete Ionization Test Kit (Includes 19495 Meter, Plate, Charger and Carrying Case)
- 19497 Portable Test kit Upgrade for Ionizers

- Portable tool to perform periodic verification of air ionizers in accordance with ANSI/ESD SP3.3. Charger quickly places  $\pm 1,000$  Volt charge on Plate per ESD TR53.
- Includes charger to put charge on conductive plate
- Just place in ionizer air flow to observe charge neutralized from plate; cost effective way to verify discharge times and offset voltage (balance) of ionizers
- Economical choice when Charged Plate Analyzer testing per ANSI/ESD STM 3.1 is not required; does it all except measure discharge times, which can be accomplished by counting or utilizing a stop watch
- Battery operated
- Monitoring and control instruments are outside the scope of RoHS
- Made in America

Technical Bulletin TB-3030



**NEW!**



19497

Use Ionization  
Test Kit on  
Desco Ionizers

See page 47



For detailed information on  
all Desco testers:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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## TESTER CALIBRATION UNIT

**07010** Calibration Unit

- *Passive device; no power source required*
- *NIST traceable; allows in-house NIST traceable calibration*
- *Wrist strap test range: 750 kilohm-10 megohm*
- *Foot ground test range: 750 kilohm-100 megohm*
- *Monitoring and control instruments are outside the scope of RoHS*
- *Made in America*

**Technical Bulletin TB-2039**

**NOTE:** The 07010 can be used with the Desco 19250, 19252, 19253, 19350, 19351, and 19240 testers



TESTERS



07010

For detailed information on  
all Desco testers:  
[Desco.com/Catalog](http://Desco.com/Catalog)

## AC OUTLET ANALYZER AND WRIST STRAP TESTER

**98130** AC Outlet Analyzer & Wrist Strap Tester

- *Outlet analyzer; verifies proper AC outlet wiring and ground path integrity, enabling effectiveness of grounding products*
- *Internal audit tool; tests to practical resistance limits*
- *Convenient, easy to use; tests wrist strap at lab or workstation*
- *27 VDC test voltage; minimizes skin resistance effects*
- *Monitoring and control instruments are outside the scope of RoHS*
- *Made in America*

**Technical Bulletin TB-2099**



98130

If you don't see an item you are used to seeing,  
check out our EMIT web site: [DescoEMIT.com](http://DescoEMIT.com)



Ultra Low Voltage Monitor



SmartLog X3  
Personnel Grounding  
Tester



ESD Survey Kit



CE Overhead Ionizer



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IONIZERS

## HIGH OUTPUT OVERHEAD IONIZER WITH LIGHTS AND HEATER

**60600** Overhead Ionizer, 40" with Light and Heater, Input 120VAC

- Auto Balance feedback to minimize offset voltage
- Automatic visual/audible alarm
- Three dual speed high output 4-3/4" fans
- "Clean Me" indicator
- 1-year limited warranty
- Made in America

[Download Technical Bulletin TB-3006](#)



Changing light in 60600 Ionizer



60600



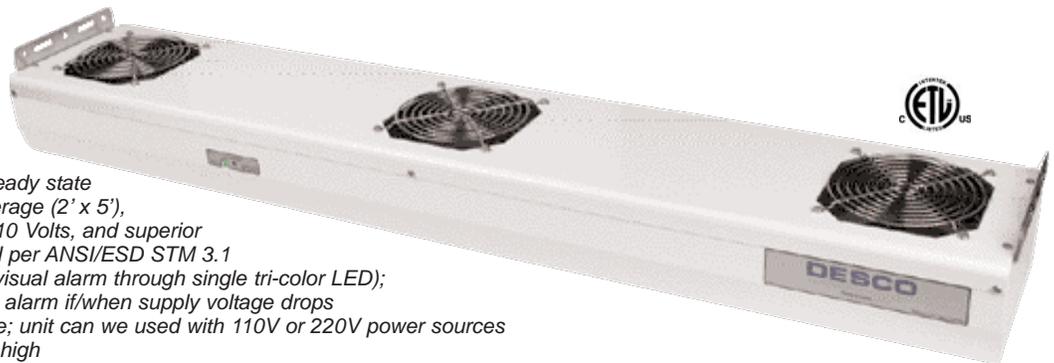
60600 Ionizer with light

## CHARGEBUSTER 3-FAN OVERHEAD IONIZER

**60473** Overhead Ionizer, Input 120VAC

- Shrouded 3 blade fan design with steady state DC ionization - allows for better coverage (2' x 5'), consistent offset voltage (balance)  $\pm 10$  Volts, and superior discharge times ( $< 3$  seconds); tested per ANSI/ESD STM 3.1
- Auto-feedback system (audible and visual alarm through single tri-color LED); unit will automatically shut down and alarm if/when supply voltage drops
- 120/220 VAC input voltage selectable; unit can be used with 110V or 220V power sources
- 3 Position Fan Speed: low, medium, high
- Made in America

[Download Technical Bulletin TB-3031](#)



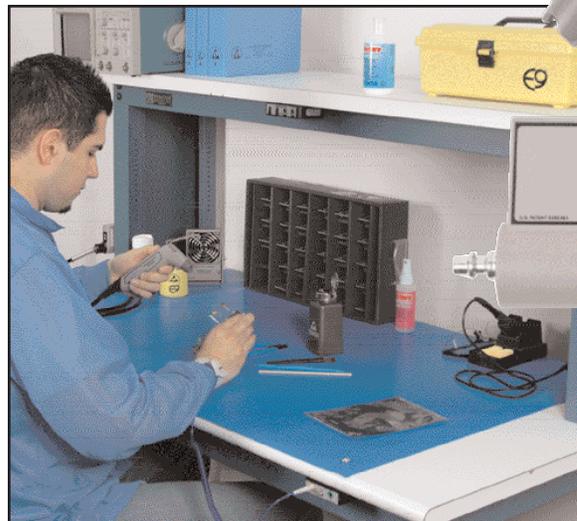
60473

## CHARGEBUSTER ION GUN

**19590** Ion Gun, 120 Volt

- Point-of-use compressed air ionizer - neutralize electrostatic charges to eliminate attraction, visual imperfections, and contamination issues by dislodging charged dust and debris
- Fast  $< 1$  second discharge times with  $\pm 30$  volt offset voltage balance; tested per ANSI/ESD STM 3.1
- Modular design with 7 foot ESD protective hose with trigger switch allows operators freedom of motion and minimizes awkward or unsupported positions
- Use filtered air or nitrogen - no adjustment required
- Made in America

[Technical Bulletin TB-3033](#)



**NEW!**

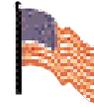


19590

For detailed information on  
all Desco Ionizers:  
[Desco.com/Catalog](http://Desco.com/Catalog)



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## ION PYTHON HAND GUN

- 19587** Controller/Hand Gun w/Hose, 120 Volt
- 19588** Controller/Hand Gun w/Hose, 220 Volt
- 60351** Nozzle/Hand Gun Attachment, ESD Protected, Dissipative

- Point-of-use ionizer using compressed air
- Choice for blowing off charge particles - ElectroStatic Attraction
- Offset voltage (balance) meets ANSI/ESD S20.20 with fast discharge time; tested per ANSI/ESD STM 3.1
- Detachable 7' hose; facilitates servicing
- Adjustable 5 to 100 PSI air pressure
- Made in America

Technical Bulletin TB-2079

Note: Can be adjusted for nitrogen at time of order



For detailed information on  
all Desco Ionizers:  
[Desco.com/Catalog](http://Desco.com/Catalog)

IONIZERS

## CHARGEBUSTER JR. H/O IONIZER

- 60500** Chargebuster Jr Ionizer, 120 Volt
- 60501** Chargebuster Jr Ionizer, 120 Volt with Heater
- 60460** Ionizer Mounting Arm
- 60480** Replaceable Emitter Cassette (pair)
- 60499** Emitter Pins, Pack of 20
- 60455** Replacement Filter

- Patented emitter cassettes\* slide out easily for cleaning and replacement; faster and better emitter cleaning can be done away from workstation and away from product
- Grounded metal case; eliminates high voltage fields
- Offset voltage (balance) meets ANSI/ESD S20.20 with fast discharge time tested per ANSI/ESD STM 3.1
- Available with heater; removes chill from air
- Optional articulated mounting arm available
- Made in America

Technical Bulletin TB-2095  
and TB-2056 (Ionizer Mounting Arm)

\*US patent #6,137,670



Perform periodic  
verification of air ionizers  
with Desco's Ionization  
Test Kit per ESD TR53  
[See page 44](#)

## BENCH TOP IONIZER

- 19500** Bench Top Ionizer, 120 Volt
- 19520** Bench Top Ionizer, 220 Volt

- Patented\*\* Faraday balance system; automatically maintains a balanced ion output
- Emits ions in a true laminar flow; reduces ion recombination and emitter contamination
- AC ionizing system; superior performance in neutralizing static charges at greater distances
- Offset voltage (balance) meets ANSI/ESD S20.20 with fast discharge times tested per ANSI/ESD STM 3.1
- Fixed temperature heater; removes chill from air
- Made in America

Technical Bulletin TB-2016

\*\*US patent #5,008,594





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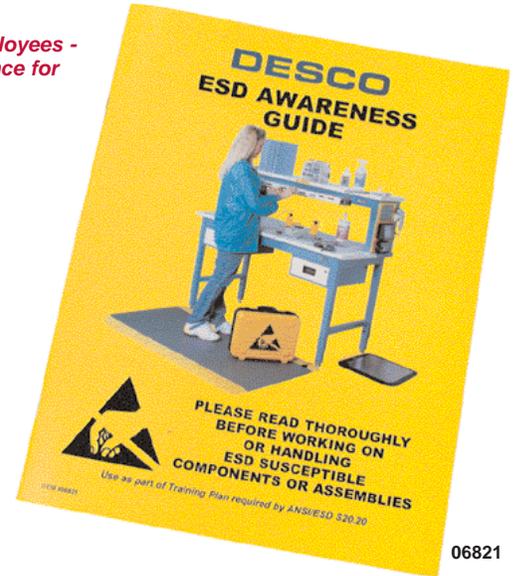
EDUCATION

## ESD AWARENESS GUIDES

- 06821 Illustrated Booklet, English, 20 pages
- 06822 Illustrated Booklet, Spanish, 20 pages

- Illustrated booklet; supplement for in-plant ESD training programs
- English or Spanish versions; communicate in worker's language
- Includes two quizzes and section on handling Class 0 ESDS items (06821 only); see quizzes with answers at: [Desco.com](http://Desco.com)
- Made in America

**ESD Training for Your Employees -  
Gain Support & Compliance for  
Your ESD Program**



06821

### Desco's

### "Total ESD Awareness & Management " Program

Desco would like to help you create and manage an on-going, improving ESD control program. Let us become part of your team. The "T.E.A.M." PROGRAM makes it easy, with our full array of products and services.

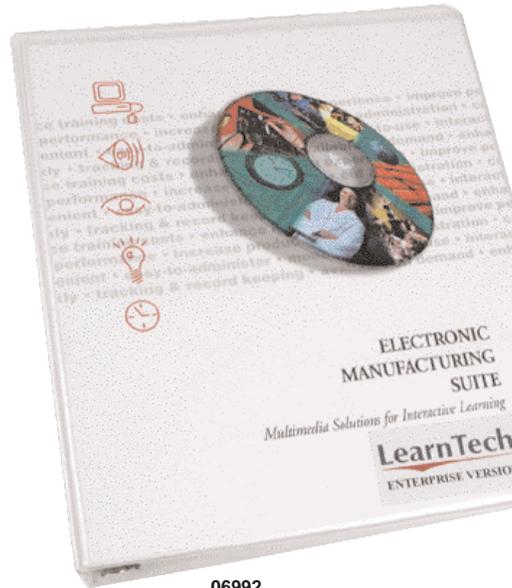
For Complete details, visit <http://www.Desco.com/PDF/TEAM/TeamFlyer.pdf>

## ESD TRAINING VIDEO & DVD

- 06991 ESD Training Video, VHS
- 06992 ESD Training DVD

- See ESD events as they happen in real time; view oscilloscope pictures on video or DVD; powerful method to convince workers that ESD events easily occur
- Series of experiments demonstrates personal grounding; shows that wrist strap grounding removes charges and eliminates ESD events
- 23 minutes of instructional material featuring Ted Dangelmayer, a past president of the ESD Association; correct and updated information clearly presented
- Material designed for live presentation with audience interaction; consider using as part of ANSI/ESD S20.20 required Training Plan
- Alternate formats: VHS, DVD, (or PAL special order); for training assembler on ESD basics, ESD Awareness Guide or CD-ROM ESD training may be more suitable
- Made in America

For detailed information on all  
Desco educational products:  
[Desco.com/Catalog](http://Desco.com/Catalog)



06992



06991



### Training Plan Required by ANSI/ESD S20.20

"Initial and recurrent ESD awareness and prevention training shall be provided to all personnel who handle or otherwise come into contact with any ESDS [ESD sensitive] items. Initial training shall be provided before personnel handle ESDS items. The type and frequency of ESD training for personnel shall be defined in the Training Plan. The Training Plan shall include a requirement for maintaining employee training records and shall document where the records are stored. Training methods and the use of specific techniques are at the Organization's discretion. The training plan shall include the methods used by the Organization to verify trainee comprehension and training adequacy." [ANSI/ESDS20.20 section 7.2]

Not a stock item, but also available is Desco CD-ROM ESD Training: Desco 06998, 06996 (Spanish).



# DESCO



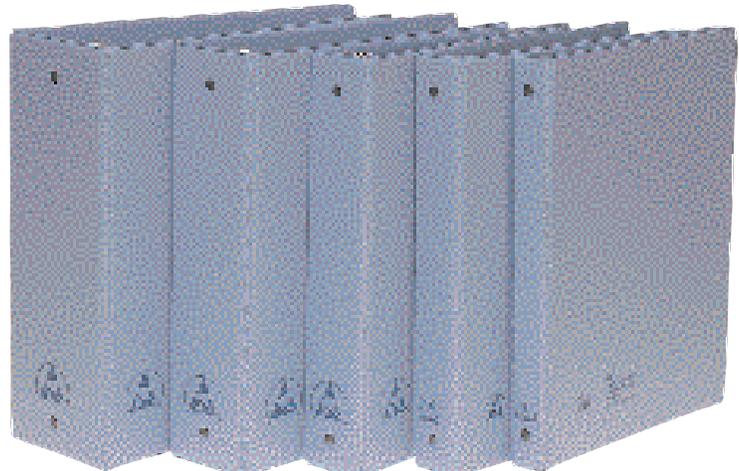
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[DescoIndustries.com/Factories](http://DescoIndustries.com/Factories)

## BINDERS - STATIC DISSIPATIVE

- 07405** Ring Size 0.5", Spine Size 1.2"
- 07410** Ring Size 1.0", Spine Size 1.7"
- 07412** Ring Size 1.5", Spine Size 2.3"
- 07415** Ring Size 2.0", Spine Size 2.9"
- 07420** Ring Size 3.0", Spine Size 4.2"

- Low tribocharging, antistatic; minimal charge generation
- ESD protected vinyl dissipative material; ideal for storing documents in ESD protected areas - charge will be removed when grounded
- 3-Ring loose leaf format; for standard 8 1/2" x 11" paper
- RTT: <10E11 ohms; meets ANSI/ESD S20.20 and Packaging ANSI/ESD S541 standards
- Made in America

**Drawing 07405**



07420      07415      07412      07410      07405

ACCESSORIES

## DOCUMENT HOLDERS-STATIC DISSIPATIVE

- 07450** Sheet Protector, Actual Size 8.75" x 11.25", Sheet Size 8.5" x 11", 3 mil
- 07451** Shop Traveler, Actual Size 10" x 12", Sheet Size 8.5" x 11", 3 mil
- 07452** Shop Traveler ‡, Actual Size 10" x 12", Sheet Size 8.5" x 11", 3 mil
- 07454** Shop Traveler, Actual Size 10" x 12", Sheet Size 8.5" x 11", 6 mil
- 07455** Shop Traveler ‡, Actual Size 10" x 12", Sheet Size 8.5" x 11", 6 mil
- 07456** Shop Traveler, Actual Size 11.25" x 17.5", Sheet Size 11" x 17", 6 mil

- Low tribocharging, antistatic; minimal charge generation
- Static dissipative material; charge will be removed when grounded
- Impregnated, not topically treated; ESD properties inside and out
- Sheet Protectors are 3-hole punched; holds documents in 3-ring binders
- Shop Travelers have pockets; production environment router or work order holder
- Drawing Holder is larger; holds engineering drawings and other large sized documents in design, testing, and production environments
- RTT: <10E11 ohms; meets ANSI/ESD S20.20 and Packaging ANSI/ESD S541 standards
- Made in America

‡ Items 07452 and 07455 have 2 pockets.

**Drawings 07450, 07451, 07454, 07455, 07456**



07450

## LEAD-FREE AREA SHOP TRAVELER

- 07473** Shop Traveler, RoHS, 9-1/4" x 11", Pack of 100

- Lead-free RoHS compliant; appropriate for use in Lead-Free work areas
- RTT: <10E11 ohms; meets ANSI/ESD S20.20 and Packaging ANSI/ESD S541 standards
- 3 mm thick, 9.25" x 11" with opening; for "A" size documents that are 8-1/2" x 11"
- Integral static dissipative properties
- RTT: <10E11 ohms, meets ANSI/ESD S20.20 and ANSI/ESD S541 requirements
- Made in America

**Drawing 07473**

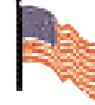
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07473



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ACCESSORIES

## MICASTAT® STATIC DISSIPATIVE CLIPBOARDS

**07601** Clipboard, 9" x 12", Blue

**07602** Clipboard, 9" x 12", Green

- *Static Dissipative, low tribocharging; minimal charge generation, charge removed when grounded*
- *Static dissipative Micastat® laminate clipboard; use to hold documents in ESD protected areas. Ideal for surveys and audits.*
- *Made in America*

Drawing 07601



For detailed information on all  
Desco accessories:  
[Desco.com/Catalog](http://Desco.com/Catalog)

## POSTERS AND SIGNS

**06742** Area Warning Poster, 17" x 22", 5 per pack

**06740** Area Warning Poster, Spanish, 17" x 22", 5 per pack

**06741** Foot/Wrist Ground Tester Poster, 17" x 22", 5 per pack

**06750** Attention Sign, RS-471, English-Spanish, 4" x 10", 10 per pack

**06751** Bench Sign, 1" x 6", 10 per pack

**06752** Bench Sign, Spanish, 1" x 6", 10 per pack

- *Item 06750: Two sided - English on one side, Spanish on the other*
- *Made in America*

Caution signs indicating the existence of the Protected Area shall be posted and clearly visible to personnel prior to entry to the Protected Area. (ANSI/ESD S20.20).



06742



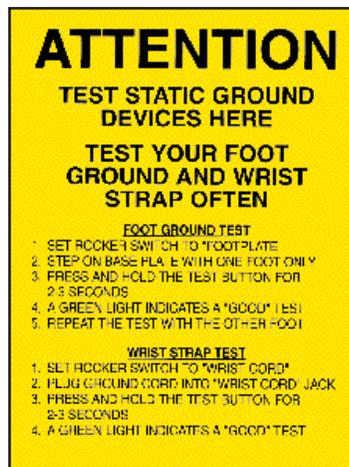
06750



06751



06752



06741



06740