

# Comfort-King™

Class 100  
Cleanroom Compatible

Anti-fatigue • Anti-microbial\*  
Electro-static Dissipative (ESD) Mat



## Comfort-King™ Class 100

Cleanroom Compatible matting is processed to be compatible with a Class 100 or ISO Class 5 Environment.



Comfort-King™ Class 100 cleanroom compatible anti-fatigue, ESD matting is produced with an anti-microbial agent which inhibits the growth of many microorganisms on the mat surface including: *E.coli*, *Staphylococcus aurea*, *Enterbacter aerogenes* and *Salmonella schottmuelleri*.

The matting is laundered in ultra-clean de-ionized water which has been filtered using reverse-osmosis and a mixed bed de-ionizer system. This produces water with a resistance greater than 18 Mega Ohms.

The matting is dried and packaged in HEPA filtered air which contains less than 100 particles per cubic foot of air. The matting is placed in a polyethylene bag and sealed within the Class 100 processing facility.

### FEATURES AND BENEFITS

- Superior Relief From Standing Fatigue
- Greater Bounce Resilience
- Greater Durability
- Anti-Microbial\*
- Static Dissipative
- Better Performance In Low Temperatures
- Greater Chemical Resistance
- Greater Slip Resistance

### APPLICATION

- Class 100 Controlled Environments
- Pharmaceutical Manufacturing
- Pharmaceutical Packaging
- Semi-Conductor Manufacturing
- Information Technology R & D
- Biotech Environments
- Automotive Manufacturing
- Health Care Environments

### APPLICABLE STANDARDS

- Processing: Class 100 Cleanroom
- Anti-Microbial\*:  
AATCC Test Method # 147 — 1998  
AATCC Test Method # 30 — 1998
- ESD: 10<sup>9</sup> OHMS per square  
RTT and RTG measured  
per EOS/ESD DS 7.1-1991

### PRODUCT AVAILABILITY

- Mat Sizes: 2' x 3' and 3' x 4'
- Thickness: 3/8"
- Color: Gray
- Beveled Edges
- Packaging:  
Processed Mats Sealed In  
Polyethylene Bags, Placed In Cartons







### Inhibits Growth of Organisms

Each Comfort-King™ Class 100 Cleanroom Compatible mat is produced with an anti-microbial\* agent which prevents/inhibits the growth of microorganisms on the mat surface and is tested to work under extreme conditions to withstand the following types of bacteria and fungi listed below.

Lot number test data is on file showing 100% contact inhibition on *Enterobacter aerogenes* and *Aureobasidium pullulans*. The other listed bacteria and fungi would achieve 100% inhibition as they are less difficult to control.

\* The anti-microbial agent in this product inhibits organism growth on the matting.

This product does not impart anti-microbial activity to surfaces that it may come in contact with.

#### BACTERIA

- *Enterobacter aerogenes*
- *Enterobacter cloacae*
- *Salmonella schottmuelleri*
- *Escherichia coli*
- *Pseudomonas aeruginosa*
- *Clostridium oroticum*
- *Bacillus megaterium*
- *Proteus mirabilis*
- *Salmonella typhimurium*
- *Morganella morganii*
- *Bacillus subtilis*
- *Streptovorticillium reticulum*
- *Klebsiella pneumoniae*
- *Bacillus cereus*
- *Brevibacterium ammoniagenes*
- *Bacillus mycoides*
- *Staphylococcus aurea*
- *Acinetobacter calcoaceticus*

#### FUNGI

- *Aureobasidium pullulans*
- *Stachybotrys chartarum*
- *Aspergillus flavus*
- *Aspergillus fumigatus*
- *Aspergillus niger*
- *Mucor racemosus*
- *Penicillium funiculosum*
- *Penicillium variabile*
- *Schizophyllum commune*
- *Serpula lacrymans*
- *Rhizopus sp.*
- *Curvularia genticulata*
- *Trichophyton mentagrophytes*
- *Trichoderma viride*
- *Alternaria alternata*
- *Poria placenta*
- *Gloeophyllum trabeum*
- *Lentunus lepideus*







### Product Specifications

**Comfort-King™ Class 100 Cleanroom Compatible industrial grade anti-fatigue mats are made of Zedlan™ foam, specially formulated to give superior wear with exceptional resiliency in polymer foams.**

|                        |  |
|------------------------|--|
| Surface Configuration: | Embossed pebble design   |
| Average Durometer:     | 50 (Shore 00)  |
| Abrasion Resistance:   | <.5 gram loss ASTM D4060<br>Wheel (H38-2000 REV)   |
| Resiliency:            | 30 min. ASTM D2632   |
| Electrical Properties: | Foam is static dissipative (10 <sup>9</sup> ohms per sq.) RTT and RTG measured per EOS/ESD DS 7.1-1991   |
| Average Density:       | 22 lbs/ft <sup>3</sup> (20-24 lbs/ft <sup>3</sup> )  |
| Flammability:          | Meets the flammability requirement of D.O.C.-FF-1-70 (Pill Test)   |
| Anti-Microbial*:       | AATCC Test Method #147 - 1998<br>AATCC Test Method #30 - 1998  |
| Thickness:             | .375" (- .030" + .035")  |
| Class 100:             | The matting is laundered in ultra-clean de-ionized water which has been filtered using reverse-osmosis and a mixed bed de-ionizer system. This produces water with a resistance greater than 18 Mega Ohms. The matting is dried and packaged in HEPA filtered air which contains less than 100 particles per cubic foot of air. The matting is placed in a polyethylene bag and sealed within the Class 100 processing facility. |
| Mat Sizes:             | 2' x 3' and 3' x 4'  |
| Tolerance:             | Length +/- 1"<br>Width +/- 1/2"  |
| Color:                 | Gray   |
| Average Weight:        | 5.1 lbs/yd <sup>2</sup> , minimum LTMV025  |

**\* The anti-microbial agent in this product inhibits organism growth on the matting.  
This product does not impart anti-microbial activity to surfaces that it may come in contact with.**



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