



Mid-Range ESD Textured Matting

KSMEC

Description

Bondline's mid-range textured matting is excellent for use on workbenches in electrostatic protected areas. The matting has 2 layers, a static dissipative surface and a black conductive backing. The dissipative top layer is resistant to abrasion, heat, solders flux and most commonly used solvents. The black conductive bottom layer provides a superior and consistent ground path to Earth. The matting is 2mm thick and is available in either a blue or grey colour.

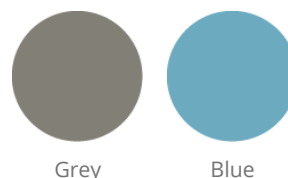
The matting meets the requirements of US ESD Associations ANSI S4.1 and S20.20 guidelines. The smooth texture can be easily cleaned and maintained. Very scratch resistant and it prevents sliding of components. The product is also certified for RoHS and REACH regulations.

Features

- Full roll size 1.2m wide x 10m long.
- Easy to clean.
- Two layers (static dissipative surface, black conductive bottom layer).
- Scratch resistant, heat resistant and UV resistant.
- 2mm thick.
- The dissipative top layer is resistant to abrasion, heat, solder flux and most commonly used solvents.
- Standard roll sizes are 10m x 1.2m and 10m x 0.60.
- RoHS and REACH compliant.
- Compliant according to IEC-61340-1-5 International Standard.
- Meets the requirements of US ESD Associations ANSI S4.1 and S20.20 guidelines.



Colour Options
(May vary between batches)



Grey

Blue

Cleaning

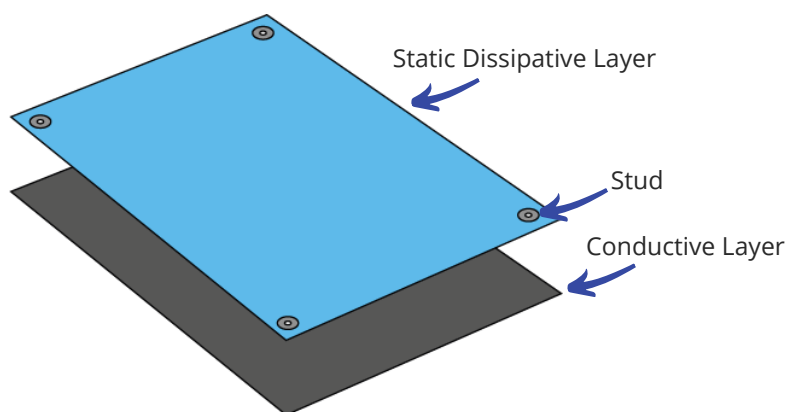
For optimum electrical performance, the surface must be cleaned regularly using an ESD safe mat cleaner. We suggest using a Staticide Mat and Table Top Cleaner for best cleaning results. This will maintain the original resistivity of the anti-static mat whilst extending its shelf-life.





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Construction

The matting is made up of two layers - a static dissipative top surface and a black conductive bottom layer.

Static dissipative top surface - resistant to abrasion, heat, solders, flux and most commonly used solvents.

Black conductive bottom layer - provides a superior and consistent ground path to Earth.

General Specifications	Typical Values
Material	Synthetic rubber
Construction	Two layer, static dissipative top surface, black conductive bottom layer.
Thickness	0.076 (2.00mm)
Colour	Grey, blue, green, beige (this may vary between batches)
Hardness	Per ASTM D2240 Upper dissipative layer - 70 -5 + 5 shore A Lower conductive layer - 75 -5 + 5 shore A
Scratch resistance	No clear scratch and well recovery.
Heat resistance	Resist holds irons and hot paste, rubber doesn't melt if in contact with hot metal parts and soldering debris.
UV resistance	No major disc
Charge decay	< 0.1 sec per FTMS 101C, M4046 TB-WINT-0008
Charge generation	< 100 volts per ANSI/ ESD STM4.2
Others	No curling, No pin holes, No irritant odour
Stud force	6KG/ 59cm (Recommended)





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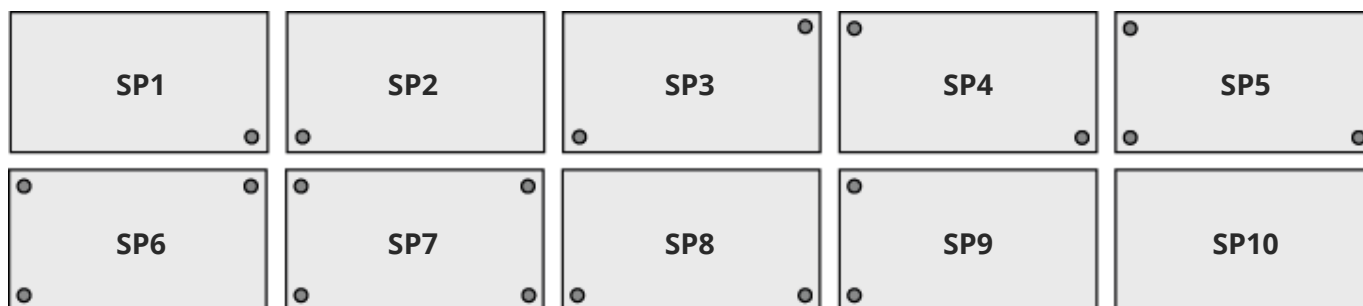
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Physical Properties	Top layer	Bottom layer
300% tensile strength	3.7Mpa	
Breaking strength	18.7Mpa	3.7Mpa
Elongation at break	690Mpa	250Mpa
Hardness	66°	80°

Mechanical Properties	Typical Values
Room temperature	21°C
Humidity	62%

Standard Product	Description	Colour
KSMEC4B	ESD Bench Material 1.2 x10m	Blue
KSMEC4G	ESD Bench Material 1.2 x10m	Grey

Stud Position



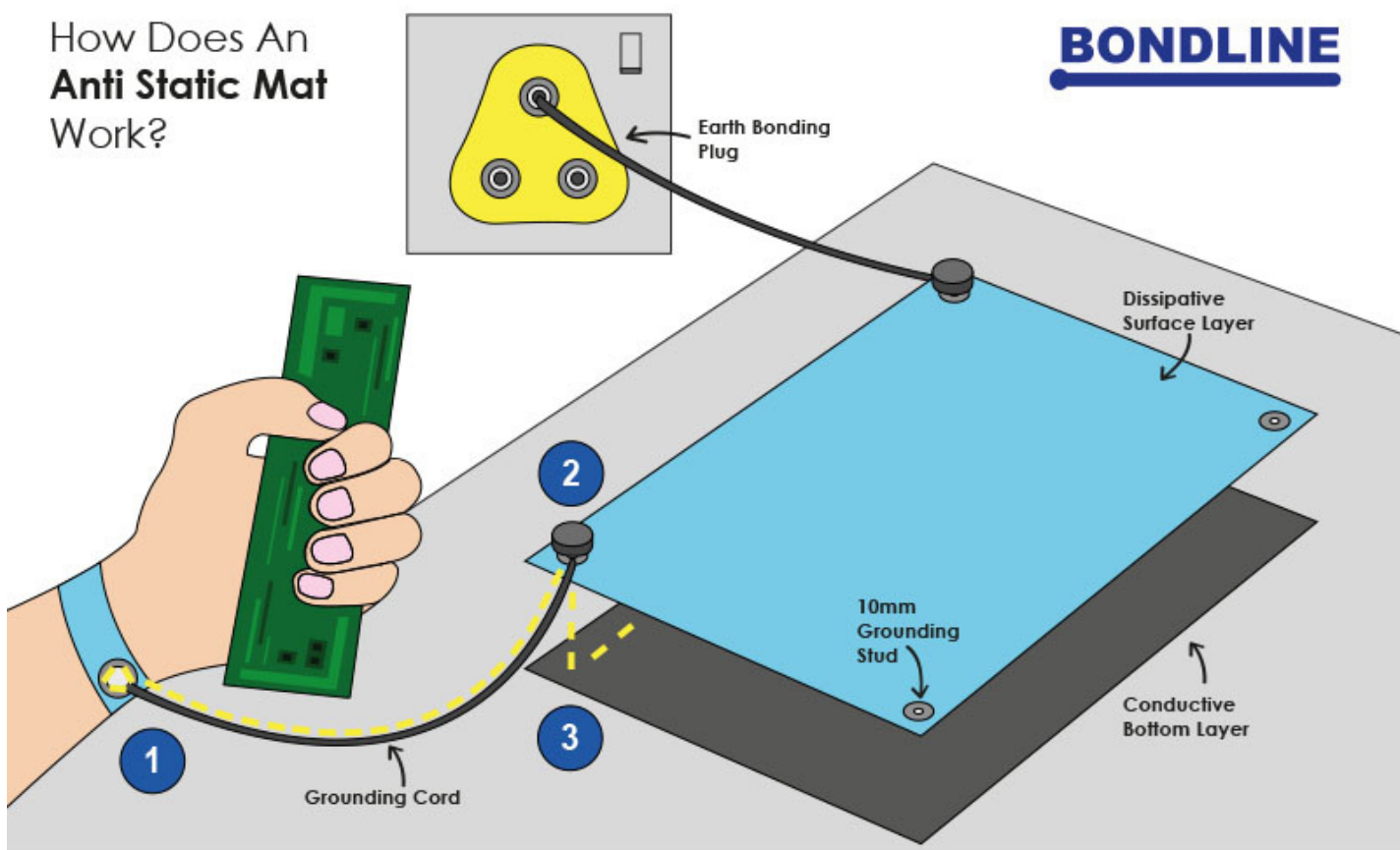


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How Does An
Anti Static Mat
Work?



- 1 Operator is grounded as charge passes through the wrist strap into the coil cord.
- 2 Coil cord is connected to the 10mm grounding stud.
- 3 The static charge passes through the mat, through the grounding lead to earth.



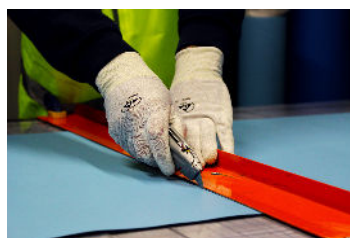


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Customised Matting Process

We provide a premium service of bespoke custom sizing and studding for our bench matting to suit all customer requirements. If you would like bespoke customisation, please make an enquiry to us.



Important Notice: The information contained within this spec sheet is for guidance only. We make no warranties expressed or implied and assume no liability regarding any use of this information. Mid-Range ESD Textured Matting, May 17th 2021.