



ESD TABLE MAT SELECTION GUIDE

HOW ESD TABLE MATS WORK

A static control mat provides a path to ground for charge on items placed on the mat. Electrically insulative items will not allow their charge to transfer to ground. ESD mats are an integral part of an ESD program.

HOW TO TEST ESD MATS

RTG is the resistance from one point on the mats surface to the mats ground point, and is the fundamental electrical test for a mat. A proper RTG insures that a mat can conduct charge from a point on the surface to the mat ground point. The guideline in ESD STM-4.1 for RTG is 1×10^6 to 1×10^9 ohms. ANSI/ESD S-20.20 has an upper limit of $< 1 \times 10^9$ ohms.


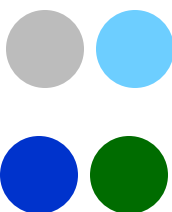
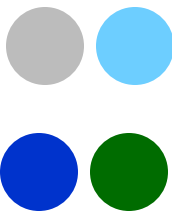


RTT is the resistance from one point on the mats surface to another point. A proper RTT insures the consistency of the mat resistance properties. The ESD STM-4.1 guideline for RTT is $> 1 \times 10^6$ ohms.

Measurements are made with a surface resistance meter such as the SRM310, SRM330, or SRM500K.

Our Types of Mats

- MT2500 RUBBER
- MT4500 RUBBER
- MTT TEXTURED
- VMB VINYL
- VMC VINYL

ESD TABLE MAT SELECTION CHART

<u>ESD TABLE MAT SERIES</u>	<u>MATERIAL MAKE UP (Thickness)</u>	<u>RESISTANCE CLASSIFICATION (Point to Point)</u>	<u>SURFACE</u>	<u>COLORS</u>	<u>SIZES</u>	<u>SPECIAL FEATURES</u>
<u>MT2500</u>	Rubber Two Layer 0.060" Thickness	$2 \times 10^6 - 8 \Omega/\text{sq}$	Smooth		24" x 50' 30" x 50' 36" x 50' 48" x 50'	Dissipative work surface with a conductive back layer. Custom sizes available
<u>MT4500</u>	Rubber Two Layer 0.080" Thickness	$2 \times 10^6 - 8 \Omega/\text{sq}$	Smooth		24" x 50' 30" x 50' 36" x 50' 48" x 50'	Dissipative work surface with a conductive back layer. Custom sizes available
<u>MT-TEXTURED</u>	Rubber Two Layer 0.080" Thickness	$2 \times 10^6 - 8 \Omega/\text{sq}$	Textured		24" x 40' 30" x 40' 36" x 40' 48" x 40'	Dissipative work surface with a conductive back layer. Custom sizes available
<u>VMB</u>	Vinyl Three Layer 0.125" Thickness	$1 \times 10^7 - 7 \times 10^8 \Omega/\text{sq}$	Kid Grain Emboss Pattern		24" x 50' 30" x 50' 36" x 50' 48" x 50'	Resistant to degradation by acids, reducing agents, detergents, alcohols, etc
<u>VMC</u>	Vinyl Homogeneous 0.093" Thickness	$1 \times 10^7 \times 7 \times 10^8 \Omega/\text{sq}$	Kid Grain Emboss Pattern		24" x 50' 30" x 50' 36" x 50' 48" x 50'	A homogeneous polymer mix with unsurpassed electrical properties, a controlled static drain and highest level of ESD protection