



BLUE, DARK BLUE,
DARK GREY, GREEN

Limited Lifetime Warranty:

Desco warrants for one year that Statfree® matting products will be free of defects in materials and workmanship and will guarantee dissipative/conductive mat properties for the life of the mat. Damage to matting caused by misuse of any kind, including using inappropriate cleaners is not covered by Desco Limited Warranty.

RoHS 2 and REACH Statement

None of the RoHS 2 restricted materials or REACH substances of very high concern are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE. See Desco [Limited Warranty at Desco.com](#).

Tolerances:

Width $\pm 0.250"$
Length $\pm 0.250"$ every 1 linear foot of running material.

**Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to condition for at least 4 hours before cutting to size. Always using care trim with a sharp knife or razor blade.

Description

Desco's Statfree® T2 worksurface mat is a 0.060" thick, 2-layer, dissipative rubber material. It is designed to provide a path to ground and eliminate static charge generation when used as a worksurface table mat, shelf liner, and cart liner. The surface resistance (1×10^6 to $< 1 \times 10^9$ ohms Rtt) of the color top layer meets ANSI/ESD S20.20 worksurface required limit and recommendation of ANSI/ESD S4.1 for contact with ESD susceptible items.

The more conductive ($< 1 \times 10^6$ Rtt) bottom black layer reduces the resistance to ground (Rtg) from the top of the surface to the groundable point ground and allows the mats to be used with [ESD continuous monitors](#). The Statfree® T2 material is manufactured with high strength nitrile rubber that is designed to withstand abrasion, stretching, and tearing and may be used in soldering applications with flux and other chemicals ([Chemical Resistance Chart](#)). Material formulation includes ultraviolet (UV) stabilizers to stabilize color retention to ensure ESD performance over time and eliminate surface layer deterioration resulting in cracking when the product is flexed.

Statfree T2™ is manufactured without any ozone depleting substances, and in accordance with the Montreal Protocol.



Made in the
United States of America

Electrical Properties

Property	Test Method	Value
Color Dissipative Layer		
Rtt Resistance:	ANSI/ESD S4.1 & ESD TR53	1×10^6 to $< 1 \times 10^9$ ohms
Rtg Resistance:	ANSI/ESD S4.1 & ESD TR53	1×10^6 to $< 1 \times 10^9$ ohms
Charge Decay:	FTMS 101C, Method 4046	0.01seconds

More Conductive Black Layer

Rtt Resistance:	ANSI/ESD S4.1 & ESD TR53	$< 1 \times 10^6$ ohms
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Specifications

Construction:	Dual-layer rubber material
Thickness:	0.060" (1.5mm)
Color:*	Blue (Top), Dark Blue (Top), Dark Grey (Top), Green (Top), Black (Bottom)
Texture:*	Slight embossed
Weight:	0.43 lbs./sq. ft. (0.2g/cm ²)
Hardness:	65 \pm 5 Shore "A", per ASTM-D2240
Heat Resistance:	Does not melt or burn when coming into contact with hot solder and soldering irons.
Chemical Resistance:	Resistance to degradation by inorganic acids, organic acids, reducing agents, aliphatic hydrocarbons, mineral oil, aldehydes, and amines.

*Color, texture and thickness may vary between lots and mills

Grounding: This material must be properly grounded for optimum electrical performance. See Tech Bulletin [TB-2000](#) for mat grounding recommendations.

Cleaning: For optimum performance, periodic cleaning is required following manufacturer's recommendations. Reztore™ Surface & Mat Cleaner or equivalent is recommended to clean and maintain your mat. See Tech Bulletin [TB-7000](#) for Reztore™ Surface & Mat Cleaner Application Instructions. See [TB-2000](#) for guidelines regarding the maintenance and cleaning of ESD Mats.

Mat Top Kit Item Numbers

Size	Blue	DK Grey	DK Blue	Green
24" x 36"	66040	66050	66051	66057
24" x 48"	66045	66055	66056	66058

MAT TOP KIT INCLUDES

- 1 Benchmat, size as specified
- 1 [14213](#) Grounding Kit
- 1 Sample (4oz) of Reztore™ Surface and Mat Cleaner

Roll Material Item Numbers

Size	Blue	DK Grey	DK Blue
24" x 40'	66070	66080	66081
30" x 40'	66110	66105	66106
36" x 40'	66075	66085	66086
48" x 40'	66095	66100	66101

Tray Liner Item Numbers

Size	Blue	DK Blue	DK Grey	Green
16" x 24"	66125 **	66126 **	66127 **	66128 **

**Tray liners have 3/4" radius corners and do not include grounding hardware.

Specifications and procedures subject to change without notice.

DESCO

STATFREE T2™ DISSIPATIVE, RUBBER, 2-LAYER, 0.060" (1.5mm)

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MATERIAL STATFREE T2™
DRAWING PM-104

DATE:
October
2014

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Desco:](#)

[66050](#)