



Blue, Grey, Black

Disclaimer:

All statements, technical data, and recommendations contained herein are based upon tests we believe to be reliable. However, the accuracy or completeness thereof is not guaranteed. The proper and correct applications of products and data is the responsibility of the user. Statements or recommendations not contained herein shall have no force or effect unless embodied in a written agreement signed by authorized officers of Desco Industries, Inc.

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 Compliance Statement

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1. See Desco Industries Inc. letter on-line at Desco.com.

Tolerances:

Width ± .250"
Length ± .250" every 1 linear foot of running material.
Thickness ±10%

Description:

Desco's Statfree® Z2™ mat is a .125" thick, 3-layer, dissipative heat fused vinyl composite 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 shelf liner. The surface resistance ($1 \times 10^6 < 1 \times 10^9$ ohms Rtt) of the top layer meets ANSI/ESD S20.20 worksurface required limit and recommendation of ANSI/ESD S4.1 for contact with ESD susceptible items. The conductive ($<10^4$ ohms Rtt) middle layer reduces the resistance to ground (Rtg) from the surface layer of the mat to the groundable point ground and allows the mats to be used with [ESD workstation continuous monitors](#). The dissipative ($1 \times 10^6 < 1 \times 10^9$ ohms Rtt) cushioned bottom layer provides additional energy absorption for components susceptible to physical shock.

Electrical Properties:

Property	Test Method	Value
Charge Decay:	FTMS 101C, M 4046	<0.01sec.
Rtt Resistance:	ANSI/ESD S4.1	$1 \times 10^6 < 1 \times 10^9$ ohms
Rtg Resistance:	ANSI/ESD S4.1	$1 \times 10^6 < 1 \times 10^9$ ohms

Specifications:

Construction:	Heat fused vinyl composite
Thickness:	0.125" (3.2mm)
Color:*	Blue, Grey, Black
Texture:*	Light Embossing
Hardness:	45 Shore "A", per ASTM-D412
Tensile Strength:	Greater than 300 psi, per ASTM-D412
Tear Strength:	Greater than 80 lbs/inch, per ASTM-D624
Elongation:	Greater than 80%, per ASTM-D412
Abrasion Resistance:	Greater than 750 cycles, per Tabor-CS17
Heat Resistance:	-20°F to 140°F continuous
Chemical Resistance:	Resistance to degradation by inorganic acids, organic acids, reducing agents, aliphatic hydrocarbons, mineral oil, aldehydes, and amines

*Color and texture may vary between lots and mills

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

Cleaning: For optimum electrical performance, surface must be cleaned regularly using an ESD mat cleaner. We suggest using our [Reztore Surface & Mat Cleaner](#). Do not use cleaners with silicone. Silicone buildup will create an insulative film on the surface.

Mat Top Kit Item Numbers

Size	Blue	Grey	Black
24" x 36"	42460	42470	42541
24" x 48"	42465	42475	42542
30" x 60"	42551	42555	
30" x 72"	42552	42556	
36" x 72"	42553	42557	

MAT TOP KIT INCLUDES

- 1 Benchmat, Statfree Z2™, size as specified
- 1 [14213](#), Common point kit w/snap, customer installed
- 1 Sample of Reztore Mat and Surface Cleaner

Roll Material Item Numbers

Size	Blue	Grey	Black
24" x 50'	42500	42515	42540
30" x 50'	42516	42517	
36" x 50'	42518	42519	
48" x 50'	42520	42530	

Tray Liner Item Number

Size	Blue	Grey	Black
16" x 24"	42550	42554	42543

Tray liner has 1" radius corners and does not include grounding hardware.

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

Specifications and procedures subject to change without notice.

STATFREE® Z2™, VINYL, DISSIPATIVE, 3-LAYER, .125" (3.2MM)

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STATFREE Z2™
DRAWING PM-112

DATE:
March
2015

DESCO



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United States of America

Mouser Electronics

Authorized Distributor

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