

Blue, Grey

**Description:**

Statfree Z2™ material is a highly effective three-layer material. Its durable vinyl top layer makes it ideally suited for use as an ESD protective bench mat. Its highly conductive middle layer provides a faster discharge path to ground. The cushioned dissipative bottom layer provides excellent protection against physical damage, and makes it easier to pick up small parts. The heat fused vinyl composite resists delamination, and is compatible for use with continuous monitors. Statfree Z2™ meets the ESD worksurface requirements of ANSI/ESD S20.20 and recommendation of ESD S4.1.

See reverse side for available mat and roll sizes.



**Electrical Properties:**

Property	Test Method	Value
Charge Decay:	FTMS 101C, M 4046	<0.01sec.
RTT Resistance:	ESD S4.1	10E6 - 10E8 Ohms
RTG Resistance:	ESD S4.1	10E6 - 10E8 Ohms

Electrical Properties obtained by testing to industrial standards by an independent testing laboratory @ 100 Volts and 50% relative humidity unless otherwise specified. Complete text of the test report is available upon request.

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 offers 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.

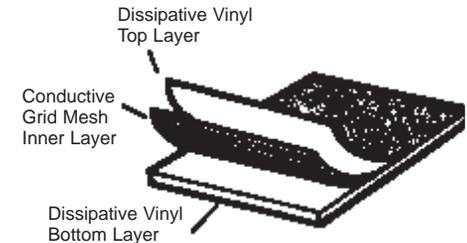
**Specifications:**

Construction:	Heat fused vinyl composite
Thickness:	0.125" (3.2mm)
Color:*	Blue, grey
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.

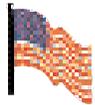
Cleaning: For optimum electrical performance, surface must be cleaned regularly using an ESD mat cleaner. We suggest using our Reztore™ Surface & Mat Cleaner Item #10435 or Static Wipes Item #10600. Do not use cleaners with silicone. Silicone buildup will create an insulative film on the surface.



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.

**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](http://Desco.com).



Made in America

Meets the requirements of DOD-HDBK-263, DTD-STD-1686A, DOD-STD-2000, MIL-W-87893, ESD S4.1.

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

**DESCO**

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STATFREE Z2™  
 DRAWING PM-112

DATE:  
 2/06

Item Number Reference For Statfree Z2™ Vinyl, Dissipative, 3-Layer

# KITS



**Tolerances:**  
 Width  $\pm .250$ "  
 Length  $\pm .250$ " every 1 linear foot of running material.

**Mat Top Kit Item Numbers**

SIZE	BLUE	GREY
24" x 36"	42460	42470
24" x 48"	42465	42475

**MAT TOP KIT INCLUDES**

- 1 Benchmat, Statfree Z2™, size as specified
- 1 14213, Common point kit w/snap, customer installed

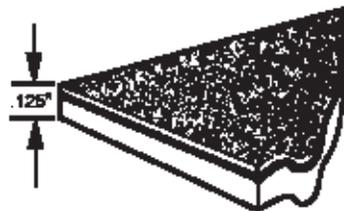
Look for the Statfree® brand on Desco ESD matting. All Desco mat top kits are permanently marked for your protection and auditing purposes.

# ROLL STOCK



Statfree Z2™  
 Is Also Available In Full Rolls

0.125" (3.2mm)  
 THICK ROLLS



**Roll Material Item Numbers**

SIZE	BLUE	GREY
24" x 50'	42500	42515
30" x 50'	42516	42517
36" x 50'	42518	42519
48" x 50'	42520	42530

**Hardware is not included with rolls.**

**Grounding Intervals for ESD Mats**

Sufficient ground cords should be used to reliably meet ANSI/ESD S20.20 Table 1 less than  $1 \times 10^9$  ohms for worksurfaces. An industry recommendation has been that continuous runs of ESD matting should be grounded at ten-foot intervals to allow proper charge decay rates with each individual ESD mat should be grounded with ground snap located no further than five feet from either end.

