

EAGLE GROUP NORTHEAST CORPORATION

PO Box 89 32 Mechanic Ave Woonsocket, RI 02895

Tel: 401-767-2242 Fax: 401-767-2255 E-mail: info@eaglegroupne.com

Technical Data Sheet No. 100-12

E-SHIELD WPS – STAINLESS STEEL EMI Shielding with PSA

Benefits:

E-SHIELD WPS is a 0.0050" thick stainless steel foil for use as an emi/rfi shield against electrical interference. The foils are easy to work with and very effective across a wide range of frequencies, shielding against unwanted signals in or out of rooms and buildings,

E-Shield products are unique as they come with Pressure Sensitive Adhesive (PSA) as the bonding mechanism. PSA offers a no-mess, no odor simple method of application method for applying the E-SHIELD to substrates. E-SHIELD is also available without PSA backing.

TYPICAL SHIELDING PERFORMANCE

Insertion Loss per MIL STD 285

FREQUENCY	dB down
200 KHz, Magnetic Field	- 40
200 KHz, Electrical Field	- 100
1 MHz, Electrical Field	- 100
10 MHz, Electrical Field	- 100
400 MHz, Plane Wave	- 80
10 GHz Plane Wave	- 80

E-SHIELD WPS is applied like wallpaper, covering all surfaces: floor, walls and ceiling. Other than normal cleanliness, and dust free, no special preparation is required. The foil may be stapled or glued in-place or ordered with a **Pressure Sensitive Adhesive (PSA)**. **E-SHIELD** products should be overlapped by a minimum of 3" to avoid RF leakage. For maximum effectiveness, seams may be taped with electrically conductive adhesive tape or sealed with an electrically conductive film. Adjoining sheets must be overlapped, caulk.

Do not solder or weld **E-SHIELD WPS**.

E-SHIELD WPS will resist corrosion damage, even under severe conditions; however, galvanic coupling with anodic materials such as aluminum should be avoided. WPAL has moderate resistance toward corrosion. Special precautions are required in wiring and operating shielded rooms to ensure proper grounding and to avoid danger of electrical shock.

E-SHIELD products are available with a vinyl pigment coating on the outer surface for architectural appeal. The vinyl coating is UV resistant and can be used in outdoor environments. All Pantene color is available. Contact your Representative for more details.

AVAILABILITY

Standard roll width of **E-SHIELD** is 24". Other sizes are available. A variety of lengths are available. Please contact your Representative with your requirements to receiving pricing and ordering information.

Thickness: 0.0030" (.0762mm) (3 mil)

Standard Rolls:

24" x 150' (300 ft²) No PSA

23" x 150' (287 ft²) Area covered by PSA

Weight: 21 lbs per roll

48" x 150' (600 ft²) No PSA

46" x 150' (575 ft²) Area covered by PSA

Weight: 42 lbs per roll

The information in this Technical Data Sheet, although believed to be accurate, is not to be taken as a warranty for which D Technologies assumes legal responsibility, nor as permission or recommendation to practice any patented invention without license. Please remember that many factors can affect the use and performance of an Eagle Group product in a particular application. Given the variety of factors that can affect the use and performance of an Eagle Group product, some which are unique to the user's application and knowledge and control, it is essential that the user evaluate the Eagle Group product to determine whether it is fit for a particular purpose and suitable for the user's method of application.