

Adhesive Mats



Keep a clean path to your cleanroom



Adhesive Mats
Adhesive Mat Frames

Adhesive Mat Selection Guide

Disposable Mats

Disposable Mats are manufactured to create a stack of polyethylene film sheets coated with a specially treated pressure sensitive adhesive on the exposed and mounting surfaces. The mat adhesive film effectively captures dirt and dust from foot-traffic and equipment wheels before they enter the controlled environment being protected. There are typically 30 or 60 sheets per mat. Valutek sheets have corner tabs that are consecutively numbered to show the number of remaining sheets.

“Everyday contamination can lead to a dramatic outcome failure, and most of the contamination found in your controlled environment walks right in through the gowning room door”

Greg Heiland - critical-tips.com

The three key attributes Valutek ‘engineers into’ its adhesive mats

- **Mat tack level**
 The ‘tack’ level is the ‘stickiness’ of the mat. The adhesive strength needs to be correctly balanced during manufacturing for optimal mat performance
- **Adhesive Softness**
 If the adhesive is too hard, particles will not transfer from the shoe or wheel to the mat. If it’s too soft, adhesive transfer to the shoe or wheel can occur
- **Film & Adhesive Thickness**
 Typical adhesive layers have a thickness between 2 and 4 millimeters (50-100 microns). If the adhesive layer is too thin, the particles will remain on the surface and shorten the useful life of the mat

Choosing a Mat Color Which mat is right for your specific application?



Gray mat: recommended for use in **ISO 7 + (Class 10,000+ Cleanroom)** environments or higher. Conceals dirt particles which is more aesthetic in less clean environments but unsuitable for more stringent uses

Recommended sizes: 18” x 36” and 24” x 36”



Blue mat: recommended for use in **ISO 5-6 (Class 100-1,000 Cleanroom)** environments. Provides a good balance between particle visibility and aesthetic qualities. Our most popular mat type

Recommended sizes: 24” x 36” and 26” x 45”



White mat: recommended for use in **ISO 3-4 (Class 1-10 Cleanroom)** environments. The combination of consistent adhesive properties and highest particle visibility make it the perfect solution for the cleanest and most critical environments.

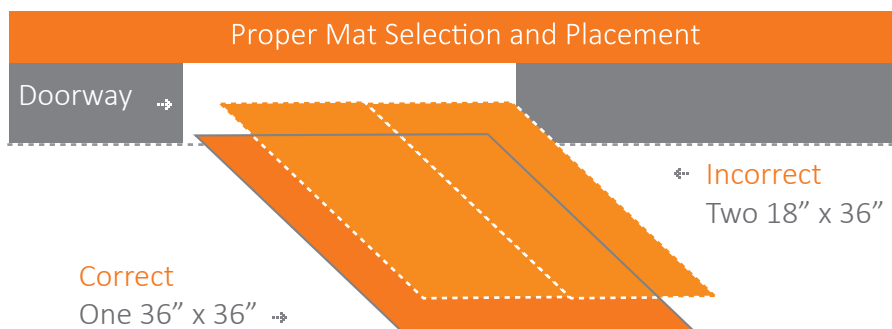
Recommended sizes: 36” x 45”, 36” x 60”, and 36” x 72”

Choose a Mat Size

To determine your correct mat size, observe the position, type and size of the doorway you wish to protect, as well as foot and cart traffic patterns entering and leaving the controlled environment

■ Selection Tip: Avoid 'tiling' mats

Avoid 'tiling' multiple mats at a doorway entrance, as this decreases performance. For example, if the doorway leading to your cleanroom is 36" wide, we recommend spanning the entire entrance with one 36" wide mat. Tiling mats allows particulates to become trapped between mat joints and create a cross contamination risk. (In this example, avoid using two 18" mats side-by-side to create a 36" surface). Also, when changing sheets, remember to start at the tabbed corner (which should be closest to the doorway), and work your way into the middle, rolling the waste film into a ball as you go.



Remember:

- 1.** The more critical the cleanroom, the larger the mat size
- 2.** Choose a size large enough that individuals will not be able to avoid walking on the mat.

Adhesive mats sizes: 18"x36", 18"x45", 24"x36", 26"x45", 36"x36", 36"x45", 36"x60", 36"x72".

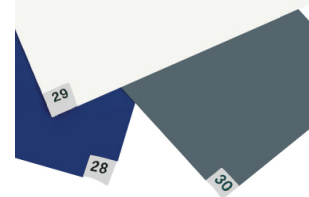
What makes Valutek's Adhesive Mats the market leader?

- Each mat sheet removes up to 95% of particles at .30-micron range
- Thicker than competitor mats at 0.05 microns film thickness
- Sheet corner labelled tabs assist in removing layers easily & tracking layer usage
- Our standard adhesive mats contain an anti-microbial agent to help kill live bacteria
- Optimized adhesive strength 'tack' formulation on all mat sizes
- Eco-friendly odorless water-based adhesive used in all mats
- Valutek product quality & innovation 'engineered in'
- Unique packaging to protect against damage & ensure product authenticity
- Valutek's renowned customer service & unconditional product guarantee

[Click here](#) to download the detailed **Adhesive Mat Installation Guide**

Adhesive Mat

- 30-layer low density polyethylene adhesive mats
- Acrylic (water based) adhesiveness
- Can Effectively capture dirt and dust from foot-traffic and equipment wheels
- Special adhesive coating provides an effective means of reducing contamination by trapping and preventing the transfer of particles



These adhesive mats are suitable for Macrotek, Microtek and Nanotek applications. The mats are ideal for a wide range of applications including cleanroom entrances, gowning rooms, laboratories or work stations that require high levels of foot-borne contamination control. Adhesive mats are widely used in a variety of industries including semiconductor, biotechnology, medical device, pharmaceutical, aerospace, automotive and construction.

18" x 36"

Part Number	Layers	Color	Packaging	Total/Case
VT18364P30L-B	30	Blue	4 mats/case	120 sheets/case
VT18364P30L-W	30	White	4 mats/case	120 sheets/case
VT18364P30L-G	30	Grey	4 mats/case	120 sheets/case

18" x 45"

Part Number	Layers	Color	Packaging	Total/Case
VT18454P30L-B	30	Blue	4 mats/case	120 sheets/case
VT18454P30L-W	30	White	4 mats/case	120 sheets/case
VT18454P30L-G	30	Grey	4 mats/case	120 sheets/case

24" x 36"

Part Number	Layers	Color	Packaging	Total/Case
VT24364P30L-B	30	Blue	4 mats/case	120 sheets/case
VT24364P30L-W	30	White	4 mats/case	120 sheets/case
VT24364P30L-G	30	Grey	4 mats/case	120 sheets/case

26" x 45"

Part Number	Layers	Color	Packaging	Total/Case
VT26454P30L-B	30	Blue	4 mats/case	120 sheets/case
VT26454P30L-W	30	White	4 mats/case	120 sheets/case
VT26454P30L-G	30	Grey	4 mats/case	120 sheets/case

36" x 36"

Part Number	Layers	Color	Packaging	Total/Case
VT36364P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36364P30L-W	30	White	4 mats/case	120 sheets/case
VT36364P30L-G	30	Grey	4 mats/case	120 sheets/case

Adhesive Mat (Continued)

36" x 45"

Part Number	Layers	Color	Packaging	Total/Case
VT36454P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36454P30L-W	30	White	4 mats/case	120 sheets/case
VT36454P30L-G	30	Grey	4 mats/case	120 sheets/case

36" x 60"

Part Number	Layers	Color	Packaging	Total/Case
VT36604P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36604P30L-W	30	White	4 mats/case	120 sheets/case
VT36604P30L-G	30	Grey	4 mats/case	120 sheets/case

36" x 72"

Part Number	Layers	Color	Packaging	Total/Case
VT36724P30L-B	30	Blue	4 mats/case	120 sheets/case
VT36724P30L-W	30	White	4 mats/case	120 sheets/case

Adhesive Mat Frame [PDF](#)

- Clean and durable polystyrene material with a 1/8" thick poly-vinyl web coating
- Eliminates floor maintenance and damage resulting from mat placement on floor
- Sized accordingly to available Valutek adhesive mat sizes
- Improves floor cleaning protocol

The adhesive mat frame is intended for use with the adhesive mat. The adhesive mats can be removed and re-applied for re-use of the frame.

Part Number	Available Sizes	Color	Suit Mat Sizes	Packaging
VTFRM-2038	20" x 38"	white	18" x 36"	1 frame/case
VTFRM-2638	26" x 38"	white	24" x 36"	1 frame/case
VTFRM-2847	28" x 47"	white	26" x 45"	1 frame/case
VTFRM-3838	37" x 37"	white	36" x 36"	1 frame/case
VTFRM-3847	38" x 47"	white	36" x 45"	1 frame/case
VTFRM-3862	38" x 62"	white	36" x 60"	1 frame/case
VTFRM-3874	38" x 74"	white	36" x 72"	1 frame/case

