

LEIMAN FILTER MATERIAL

HEPA Filter Support Mesh



HEPA filters, which stand for High Efficiency Particulate Air filters, are advanced air filters designed to remove small particles and contaminants from the air. They are highly efficient in capturing airborne particles as small as 0.3 micrometers with a high efficiency rate of 99.97%.

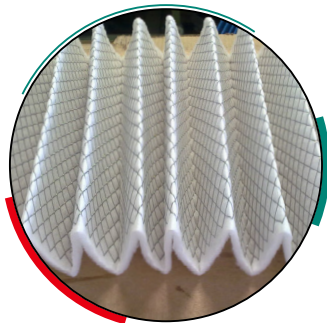
During HEPA filter production, the HEPA filter support mesh provides support and protection for filter media.

HEPA Filter Support Mesh Functions

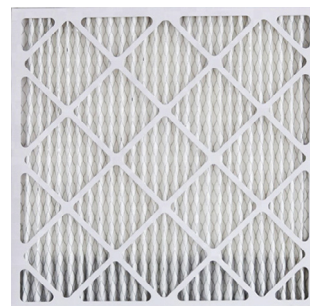
HEPA filter support mesh has two main major functions: support & protection

Support

GI diamond mesh can be used in combination with other materials, such as non-woven filter cloth, to create composite separators in HEPA filters. The expanded metal provides structural support and stability and helps create a more uniform spacing between pleats. It can also enhance the overall performance of the filter by providing additional filtration surfaces.



GI diamond mesh is composited with non-woven cloth.



Primary HEPA filter made of GI diamond mesh and non-woven cloth.

LEIMAN FILTER MATERIAL

HEPA Filter Support Mesh



HEPA Filter Support Mesh Functions

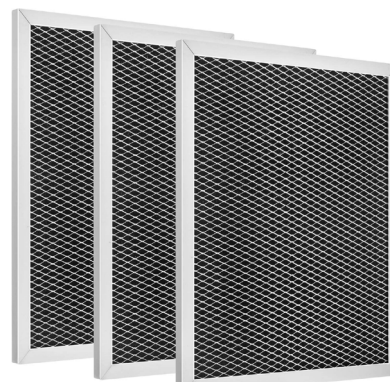
HEPA filter support mesh has two main major functions: support & protection

Protection

In most cases, the support mesh is used as an external screen or protective layer for the filter. It provides a rigid and durable structure that helps protect the delicate filter media from physical impact and damage. They are placed on the outer side of the filter to protect the filter media and maintain its integrity. By using the support mesh as an external screen, HEPA filters can withstand handling, transportation, and operational stresses while maintaining their effectiveness in capturing particles. In addition, it can act as a protective barrier, preventing larger debris or contaminants from reaching and potentially damaging the filter media.

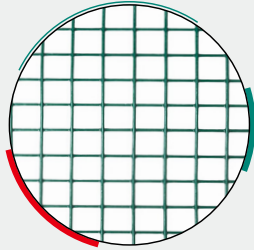


Outer protection mesh for cylinder.



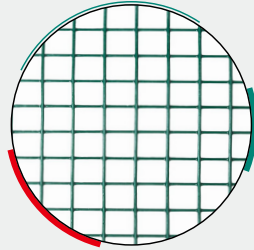
Outer protection mesh for panel.

HEPA Filter Support Mesh Types



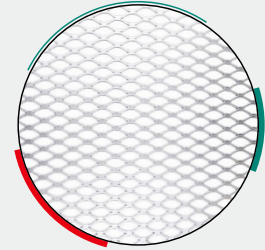
PVC Coated Wire Mesh

MS wire thickness: 0.55 mm
 PVC thickness: 0.4 mm
 Total thickness: 0.95 mm
 Mesh size: 1/2" × 1/2"
 Color: green
 Roll size: 582 mm × 100'
 weight: 6.3 kg/roll



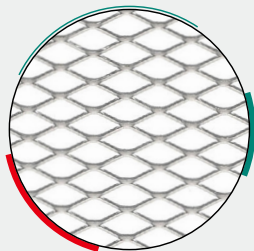
PVC Coated Wire Mesh

MS wire thickness: 0.55 mm
 PVC thickness: 0.4 mm
 Total thickness: 0.95 mm
 Mesh size: 1/2" × 1/2"
 Color: green
 Roll size: 490 mm × 100'
 weight: 5.3 kg/roll



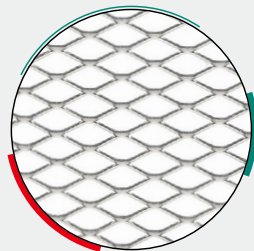
Aluminum Expanded Metal

Thickness: 0.5 mm
 Mesh size: 5.5 × 3.5 mm
 Roll size: 1.2 m × 30 m
 Weight: 13.5 kg/roll



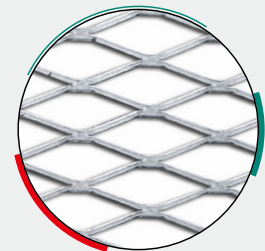
GI Diamond Mesh

Wire Thickness: 0.85 mm
 Mesh Size: 7 × 12 mm
 Roll size: 1.2 m × 20 m
 Weight: 32 kg/roll



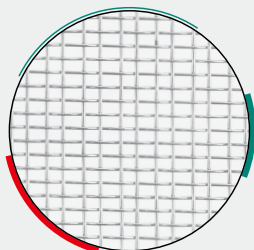
GI Diamond Mesh

Thickness: 0.6 mm
 Mesh Size: 7 × 12 mm
 Roll size: 1 m × 20 m
 Weight: 16 kg/roll



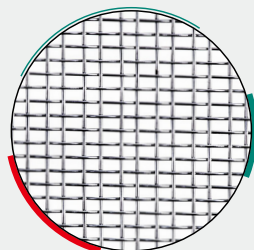
GI Diamond Mesh

Mesh size: 25 × 13 mm
 Roll size: 615 mm × 300 m



Aluminum fine mesh

Thickness: 0.2 mm
 Roll size: 1.2 m × 20 m
 Weight: 2.7 kg/roll



GI Fine Mesh

Thickness: 0.2 mm
 Mesh size: 14 × 14 mm
 Roll size: 1.2 m × 20 m
 Weight: 8 kg/roll