

Product Data Sheet

Style MMAL012MATXXX Aluminum Heatshield Composite

McAllister Mills, Inc.

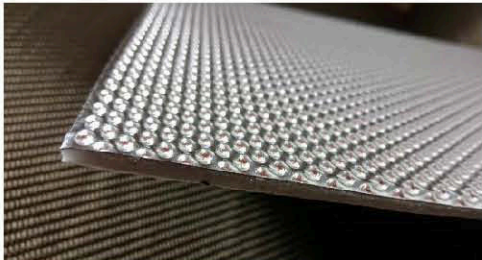
Revised: March 12, 2018R05

Insulated Aluminum Heatshield: Durable dimpled aluminum sheeting with high performance basalt, Treo® or ultrathin glass mat. The dimpled pattern ensures easier formation around radial surfaces, adds rigidity, improves heat reflection and give a professional OEM appearance. To ease installation, a double-sided tape, or Pressure Sensitive Adhesive is an option. The PSA applied to the insulation side has an incremental pre-cut release liner to remove exposing an adhesive surface to help hold or tack product in place. More permanent mechanical fasteners are recommended for higher temperature applications. The dimpled foil is also available applied to both sides or encapsulating the mat. Areas of application include thermal shielding in industrial system control boxes, HVAC thermal protection, motorsports, fuel tank protection, exhaust shields and many other commercial and industrial end uses.

Base Metal

0.31mm dimpled rigidized Aluminum (available without mat) Reflective, or Black Magma™ for stealth applications.

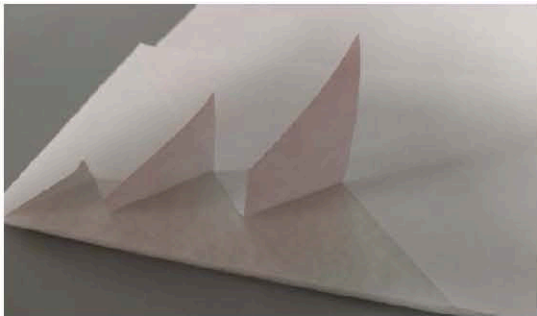
Constructions with Mat



- 1) Basalt mat- 5mm, best choice for 1200F temperature and chemical resistance performance.
- 2) Treo®, 7mm, superior thermal properties to 1800F.
- 3) Ultrathin mat, 3.2mm, excellent for tight fit tolerances.
- 4) Available with pre-cut PSA adhesive or double side sheet.
- 5) Mechanical attachment options such as grommets, rivets, etc. also available.

Many other sizes available upon request.
Custom stamped parts also available.

Thermal Performance At 12mm distance or more from heat source, a 200-300F temperature reduction is typically achieved from the heat source surface temperature to the cold side of the insulation mat. Note, final results can be changes by mat selection, mat thickness and use of foil on both sides. Please note that adhesive systems used to attached aluminum foil to mat, and the PSA option on the mat have thermal resistance to a nominal 400F. If exceeding this temperature, a more permanent attachment such as rivets or grommets etc. is recommended. Attachment methods can be ordered and/or pre-installed from McAllister Mills.



Available Pre-cut PSA release liner in 38mm wide increments for easy removal of liner from all shape and size parts.

Insulation Mat (only) Average Thermal Conductivity

200F- 0.21, 500F-0.41, 1000F-0.90



Black Magma™

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