



**INSULTECH® ACOUSTIC SHIELD SPECIFICATION**  
For Use on Low Temperature Acoustic Service

**SERVICE:** A cost effect sound reduction solution, used on equipment, machinery and surfaces not exceeding 300°F. Thermal Acoustic blanket exposure can be indoors and outdoors. INSULTECH® Sound Shield is weather / water resistant, ideal for commercial HVAC settings. INSULTECH® Sound Shield is a cost effect sound reduction design with many features of a self contained INSULTECH® Acoustic Blanket Insulation design.

**EQUIPMENT APPLICATIONS:**

- Compressor Piping
- Compressor Housings
- Economizers
- Pumps
- Fan Housings
- Blower Housings

**BLANKET COMPONENTS:**

- Outer Jacket: • 1.5 lb/SF Surface Mass Loaded Vinyl
- Insulation: • 3/4” Thick Armacell® SA – Closed Cell Elastomeric Foam Structure
- Inner Jacket: • Aluminum Self Adhered Reflective Foil Facing

**Physical Data:**

Physical Properties	Performance Measures	Test Methods
Thermal Conductivity	0.27 @ 75° F	ASTM-C177
Flame & Smoke Rating	25 / 50	ASTM E-84
Upper Use Temperature Limit	300° F	ASTM-C411

**DESIGN REQUIREMENTS:**

The INSULTECH® Acoustic Shield will be custom fit to match the treated surface. Using CAD / CNC technology, INSULTECH® Acoustic Shield will match complex surface geometry with close tolerances. All pieces will include a Velcro™ flap closure along seams to assure maximum acoustic reduction.

**FABRICATION REQUIREMENTS:**

- A. INSULTECH® Acoustic Shield outer jacketing will match the treated surface and will account for thickness changes resulting from the composite addition of Armacell® insulation. This material is self adhered to the mass loaded vinyl jacketing producing a self contained acoustic system, easy to install within minutes.



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- B.** The outer jacket surface will be designed via CAD for exact fit and finish. CAD design will allow a precision CNC production approach with maximum tolerances. A CAD electronic filing and storage will be necessary for future reference.
- C.** For ease of identification and location, an aluminum name plate tag will be riveted to each blanket piece. 1/8" Embossed lettering will include equipment model, description, size, rating and tag number sequence. The tag will appear in a visible location on the exterior surface of the acoustic shield.
- D.** When designing INSULTECH® Acoustic Shield for large equipment where a multi-piece construction is necessary, the total number of pieces will be minimized. Any one piece will not exceed 50 lbs. in weight.
- E.** Each INSULTECH® Acoustic Shield project will include an instruction package shipped with the material. This package will include Assembly Drawings, identifying piece location, a Material List of all pieces and Instructions for Installation on how the INSULTECH® Acoustic Shield will be installed.
- F.** All INSULTECH® Acoustic Shields will accommodate vibration probes, gauges, tubing, piping, brackets, etc. All pieces will be guaranteed to fit.
- G.** All INSULTECH® Acoustic Shield will include a Velcro® hook & loop fastener sewn to an outer jacketing flap. A 2" wide hook will be stitched to the outer jacketing surface of acoustic shield and a 2" wide loop will be stitched to an extended outer jacketing flap. The Velcro® will be polypropylene, sewn with a multiple filament black polypropylene thread.
- H.** To access the true limitations of this recommended design, refer to the technical data sheets on each product component. This recommended design is intended to follow those guidelines and produce the highest achievable service life possible. Blanket design quality can be reduced or enhanced by changing any one component. If a question arises regarding deviations from those stated guidelines, please contact your regional representative or call Shannon direct.