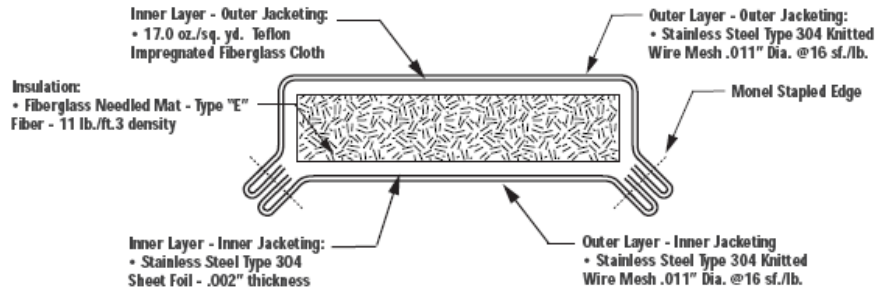


Design Specification:						HT1000MTFM		
Service	Temperature F° / C°		Exposure Indoor/Outdoor	Inner Jacket Pervious / Impervious	Outer Jacket Pervious / Impervious	Flammability	Suitability	Comments
Piping & Equip.	1000	538	✓ / ✓		✓	NON	High Temp. Process	Non-Wicking
Application • Flanges • Pumps • Manways • Valves • Equipment Heads • Equipment • Equipment Housings • Nozzles • Piping Market • Chemical Process • Petrochemical Process								

Design Components:



Blanket Thickness Surface Temperature Reference:			
Operating Temperature	Thickness / Surface Temperature		Thickness / Surface Temperature
700°F (371°C)	1.5"	156.5 F	2"
800°F (427°C)	1.5"	174.6 F	2"
900°F (482°C)	1.5"	194.5 F	2"
1000°F (538°C)	2"	189.4 F	2.5"
			2.5"
			3"

- * The above reference cold face surface temperatures should be used as guidelines for blanket thickness design.
- * The cold face surface temperature of the blanket should approach surrounding ambient temperature conditions.
- * The economic thickness of the blanket should consider blanket cost to thermal performance.
- * Heat loss calculations are based on a 70°F ambient using a flat surface condition.

Fabrication Requirements

Blanket Construction

Blanket construction shall be a stapled construction. Outer jacket materials will be drawn down, to match at the inner jacket edge. Jacketing will be folded under and stapled with 3/8" Monel bevel point staples at the seam. Staples are to follow the inner jacket edge with at most 1" spacing between staples. Hogrings are not acceptable.

Blanket Overlap

Blanket will overlap mating flanges as well as existing insulation with a minimum of 2" overlap. Where blanket cannot overlap existing oversized insulation, blanket will butt up to existing insulation with a friction closing seam. Open gaps are not acceptable. Blanket diameters which are 2" larger than existing insulation must be capped to eliminate open air void.



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INSULTECH

Assembly Drawing Requirements

Each blanket insulation project will include an instruction package shipped with the blanket material. This package will include Assembly Drawings identifying piece location, a Material List of all pieces and Instructions for Installation on how blanket insulation will be installed. The latest and most accurate records must be kept by the supplier on a CAD file for a minimum of ten years to assure re-orders and replacement.

ID Plate

For easy identification and location, a stainless steel or aluminum name plate tag is riveted to each blanket piece. 1/8" Embossed lettering shows location, description, size, pressure rating and tag number sequence.

Quilting Pins

To enhance blanket quality and maintain uniform thickness, stainless steel tufts or pins will be placed at random locations no greater than 18" apart. This will prevent shifting of the insulation filler.

Blanket Insulation Weight

Blanket design will conform to the equipment surface with minimized air void. The total number of pieces will be minimized. Any one piece will not exceed 50 lbs. in weight. Designs will minimize installation time as well as removal time.

Standard Fastener

Blanket insulation will accommodate the following fastening option. A 20 gauge stainless steel wire will be doubled up and twisted in a spiral fashion with a minimum of 4 twists per inch. Wiretwist length will be 16" or greater. The Wiretwist will be secured to the lacing pin at the pin stem. Lacing pin stems will be 14 gauge. Each Wiretwist will have a matching lacing pin.

Fastening Options

1) Lacing Pins

Stainless Steel Type 304 lacing pins. These pins can either be 12 or 14 gauge. Location of pins on the blanket will be 2" or more from blanket edge and 8" or less from centerline to centerline.

Project Qualifications

All items to be insulated will require a field takeoff prior to bid submittal, and must be reviewed for proper cost estimation. Upon receipt of project contract, each and every item must be accurately measured for retrofitting to existing field conditions and tagged with an aluminum or stainless steel identification tag showing an item number for installation reference. At the time of installation, blankets must have a corresponding item number shown on the blanket tag and must match to existing tagging on fitting. No standard blanket designs will be accepted. This will assure good thermal performance.

Warranties

All blankets will carry an 18 month warranty covering the replacement cost of the blanket. This warranty will cover blanket failure due to premature degradation from either blanket components used in the blanket, the blanket design construction or workmanship.

Storing Records

Blanket supplier will be required to maintain accurate records for future purchases or replacement for any or all blanket items purchased and installed. Records must be kept for a minimum 10 years. All design files will be stored via CAD for easy retrieval.

Design Construction Sample

Upon bid submittal a blanket design construction sample must be presented for review and product approval. A 12" by 18" Sample will be required and must identify all characteristics mentioned in the above fabrication requirements. Any deviations from the above stated requirements may result in rejection.

Design Guidelines

To access the true limitations of this recommended design, refer to the technical data sheets on each product component. Following these guidelines will produce the highest achievable service life. 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 directly.



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