



## MPT® Metal Mesh Blanket

### HIGH TEMPERATURE INSULATION

#### DESCRIPTION

MPT Metal Mesh Blanket is made of inorganic fibers derived from basalt, a volcanic rock, with thermosetting resin binder. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content, for excellent performance in thermal control, acoustical and fire resistance applications. MPT-MMB is a mineral wool blanket available with a variety of options of metal mesh mechanically applied to one or both surfaces.

#### ADVANTAGES

**Thermal Performance.** Good thermal conductivity values help maximize control of heat loss, contributing to reduced operating costs and greater energy savings.

**Light Weight, Low Dust.** Easy to handle and fabricate, MPT- MMB is easy to cut with a knife and snips. Clean handling properties minimize job cleanup time and expense.

**Non-Combustible.** MPT-MMB is rated as non-combustible in accordance with ASTM E136 and CAN4-S114-M.

**Mold Resistant.** MPT-MMB does not support the growth of fungi.

#### APPLICATIONS

MPT-MMB is produced for industrial applications at temperatures up to 1200°F (650°C). Applications include high temperature expansion joints, coke drums, vessels, power and process equipment. It is commonly used where resistance to thermal shock and vibration is desired or required. It may be installed directly on hot surfaces; system shutdown and staged heat-up are not required.

#### AVAILABLE TYPES

##### Standard Thicknesses:

- 1" thick up to 6" thick (25mm to 150mm) in ½" increments
- Standard Width: 24 inches (60cm)
- Standard Length: 48 inches (120cm)

##### Mesh Options

- Galvanized Hex Wire Mesh
- Stainless Hex Wire Mesh
- Various Carbon Steel Expanded Metals
- Stainless Steel Expanded Metal
- Custom Configurations Upon Request
- Some metal mesh, such as galvanized have a temperature limitation that must be considered in system design.

#### LINEAR SHRINKAGE AFTER 24 HRS. AT TEMPERATURE

Temperature		Shrinkage (%)
°F	°C	
1050	566	0
1200	649	<2



**MPT® Metal Mesh Blanket**  
OPERATING TEMPERATURE LIMIT: 1200°F(650°C)

#### THERMAL CONDUCTIVITY

Mean Temperature	Btu.in./hr.ft <sup>2</sup> ( W/m · °C )
75°F (24°C)	0.23 (0.035)
200°F (93°C)	0.29 (0.042)
300°F (149°C)	0.35 (0.050)
500°F (260°C)	0.48 (0.069)
600°F (316°C)	0.56 (0.081)

SPECIFICATION COMPLIANCE-INSULATION	
ASTM C592 Specification of Metal Mesh Covered Blanket	Type I, II and III
ASTM C665 Corrosivity to Steel	Passes
ASTM C795/C871/C692	Passes
ASTM C1335 Shot Content	<25%
ASTM C1338 Fungi Resistance	Passes
ASTM E84 Flame Spread/Smoke Developed	5/0
ASTM E136 Noncombustible	Passes
Recovery after 10% compression	100%

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### PRODUCT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to IIG-CSP-3 for Certification Procedures and Charges. Call customer service for more information.

### QUALITY STATEMENT

IIG Products are designed, manufactured and tested to strict quality standards in our own facilities. This along with third party auditing is your assurance that this product delivers consistent high quality.



Industrial Insulation Group, LLC is a Johns Manville company. IIG manufactures MinWool-1200® mineral fiber pipe, block and a variety of other insulations; Thermo-12® Gold Calcium Silicate pipe and block insulation; Super Firetemp® fireproofing board; SprouleWR-1200® Perlite pipe and block insulation; high temperature adhesives, and insulating finishing cement.

The physical and chemical properties presented herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Customer Service Office to assure current information. All Industrial Insulation Group products are sold subject to the IIG Limited Warranty and Limitation of Remedy. For a copy of the IIG Limited Warranty and Limitation of Remedy, email - [info@iig-llc.com](mailto:info@iig-llc.com).