



1-800-859-7875

WWW.AMERICANINSULATION.COM



38900 W. TEN MILE RD. • FARMINGTON HILLS, MI 48335
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sales@americaninsulation.com • www.americaninsulation.com

Dear Customer,

Thank you for the opportunity to introduce American Mechanical Insulation Sales, Inc. (AMIS) and our **insulated pipe support systems** to you.

AMIS is an established, reputable company with a proven dedication to customer satisfaction. Our Farmington Hills, Michigan location is the manufacturing site of our insulated pipe support systems, and this allows for dramatic reductions in lead time due to transit. We can manufacture orders quickly and have them available for delivery at your convenience. We deliver materials using our own trucks, so you can eliminate freight costs as well as schedule an optimal delivery time without the usual waiting involved with over-the-road carriers.

Because AMIS manufactures its pipe supports in Farmington Hills, we are also able to ship in designated increments. This allows for quick lead times, and also reduces the chance of damage due to job site incidents. It also eliminates the need to "pad" numbers to allow for damage. If you need more of any particular size, just call. We can start fabricating immediately.

Please take the time to look through this catalog. AMIS currently has nineteen (19) systems available with more to come. We are constantly looking for new systems that will help you, the customer, in the field.

Thank you for your time, and feel free to call me with any questions or concerns you may have.

Sincerely,

Scott W. Zweng
General Manager

AMIS 100 SERIES PIPE SUPPORTS



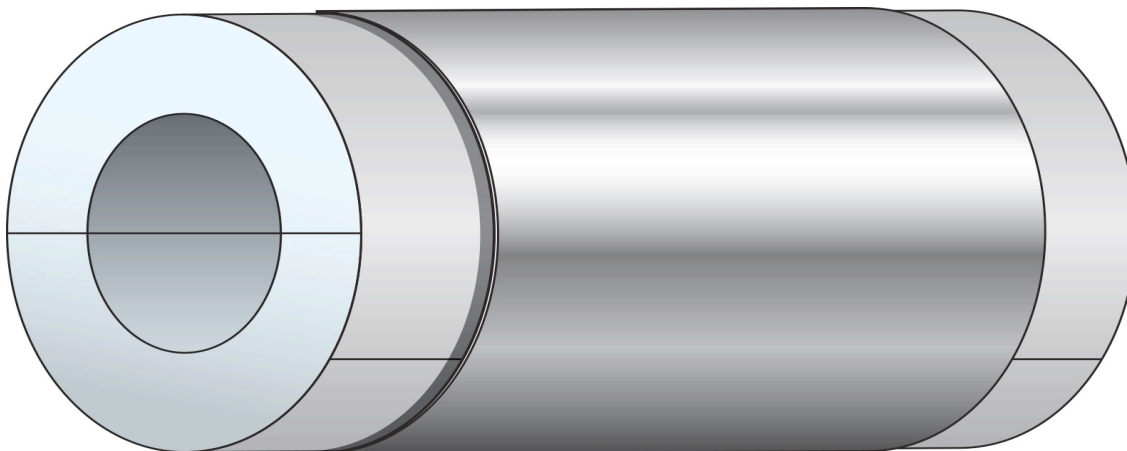
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AMIS 100 PERLITE PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PERLITE PIPE INSULATION



APPLICATION:

Because Perlite is water resistant, model AMIS 100 is recommended for any medium and high temperature system located outdoors, or any place where moisture is a concern. For installation on flat surfaces, clevis, and roller hanger systems.



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MODEL - AMIS 100 PERLITE
PRE-INSULATED PIPE SUPPORT SYSTEM
WITH WATER RESISTANT PIPE INSULATION

"water tight!"

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- WATER RESISTANT
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- HIGH SUPPORT STRENGTH
- HIGH CORROSION RESISTANCE
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

WATER RESISTANT DESIGN FOR THE FOLLOWING SPECIAL APPLICATIONS:

- COLD WATER
- CHILLED WATER SYSTEMS
- PROCESS COOLING WATER
- OUTDOORS

BECAUSE PERLITE IS WATER RESISTANT, MODEL **AMIS 100** IS RECOMMENDED FOR MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS LOCATED OUTDOORS, OR ANY PLACE WHERE MOISTURE IS A CONCERN. FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS.

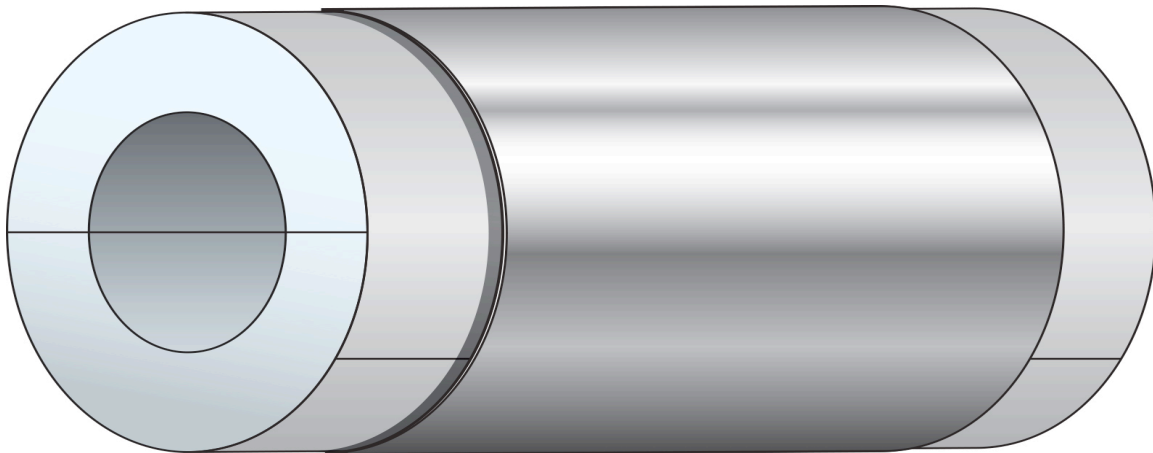
MATERIAL DATA:

TEMPERATURE RANGE	+75F TO +1200F (+40F TO 1200F WITH VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	13.0 pcf	ASTM C 302
WATER ABSORPTION	0.4% BY VOLUME- AVG	ASTM C 610
COMPRESSIVE STRENGTH	80 psi	ASTM C 165
SURFACE BURNING	FLAME SPREAD 0	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 0	
THERMAL CONDUCTIVITY	Mn TEMP=100F 0.44 BTU-in/hr-SF-F	ASTM C 177
	Mn TEMP=200F 0.48 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.57 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.68 BTU-in/hr-SF-F	

AMIS 100-DB PERLITE PIPE SUPPORT SYSTEM

FEATURES:

- * BOTTOM SHIELD IS "DOUBLED-UP" TO PROVIDE EXTRA SUPPORT FOR MODERATE LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PERLITE PIPE INSULATION



APPLICATION:

Because Perlite is water resistant, model AMIS-100 DB is recommended for any medium and high temperature system located outdoors, or any place where moisture is a concern. For installation on flat surfaces, clevis, and roller hanger systems to meet **moderate load** requirements.



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MODEL - AMIS 100-DB PERLITE

"water tight!"

PRE-INSULATED PIPE SUPPORT SYSTEM
WITH WATER RESISTANT PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- WATER RESISTANT
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- HIGH SUPPORT STRENGTH
- HIGH CORROSION RESISTANCE
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

WATER RESISTANT DESIGN FOR THE FOLLOWING SPECIAL APPLICATIONS:

- COLD WATER
- CHILLED WATER SYSTEMS
- PROCESS COOLING WATER
- OUTDOORS

BECAUSE PERLITE IS WATER RESISTANT, MODEL **AMIS 100** IS RECOMMENDED FOR MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS LOCATED OUTDOORS, OR ANY PLACE WHERE MOISTURE IS A CONCERN. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET **MODERATE LOAD** REQUIREMENTS.

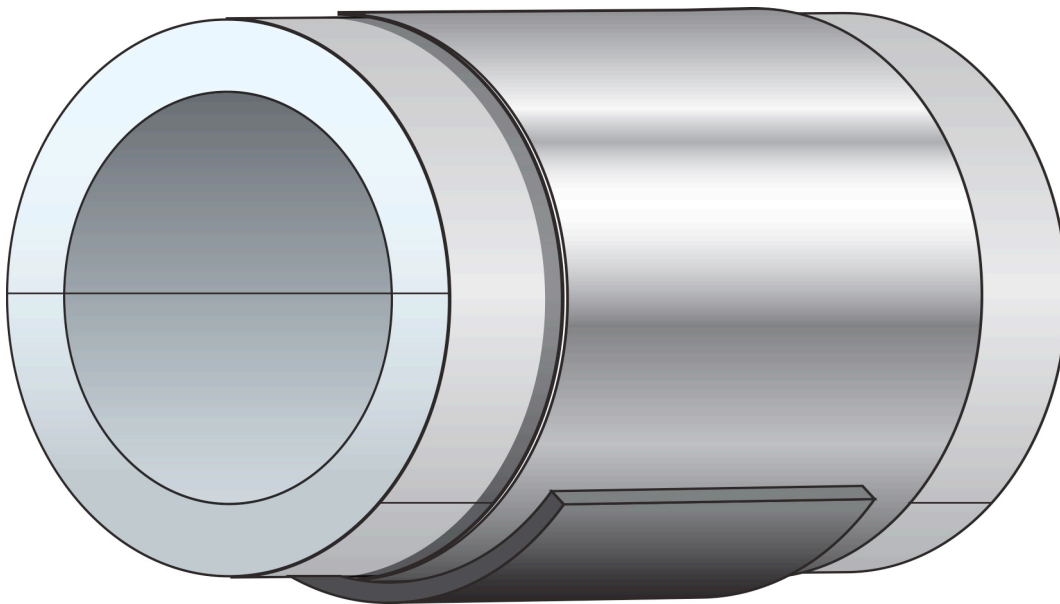
MATERIAL DATA:

TEMPERATURE RANGE	+75F TO +1200F (+40F TO 1200F WITH VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	13.0 pcf	ASTM C 302
WATER ABSORPTION	0.4% BY VOLUME- AVG	ASTM C 610
COMPRESSIVE STRENGTH	80 psi	ASTM C 165
SURFACE BURNING	FLAME SPREAD 0	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 0	
THERMAL CONDUCTIVITY	Mn TEMP=100F 0.44 BTU-in/hr-SF-F	ASTM C 177
	Mn TEMP=200F 0.48 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.57 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.68 BTU-in/hr-SF-F	

AMIS 100-LH PERLITE PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PERLITE PIPE INSULATION



APPLICATION:

Because Perlite is water resistant, model AMIS-100 LH is recommended for any medium and high temperature system located outdoors, or any place where moisture is a concern. For installation on flat surfaces, clevis and roller hanger systems to meet **heavy load** requirements.



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MODEL - AMIS 100-LH PERLITE

"water tight!"

PRE-INSULATED PIPE SUPPORT SYSTEM
WITH WATER RESISTANT PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- WATER RESISTANT
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- HIGH SUPPORT STRENGTH
- HIGH CORROSION RESISTANCE
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

WATER RESISTANT DESIGN FOR THE FOLLOWING SPECIAL APPLICATIONS:

- COLD WATER
- CHILLED WATER SYSTEMS
- PROCESS COOLING WATER
- OUTDOORS

BECAUSE PERLITE IS WATER RESISTANT, MODEL **AMIS 100** IS RECOMMENDED FOR MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS LOCATED OUTDOORS, OR ANY PLACE WHERE MOISTURE IS A CONCERN. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET **HEAVY LOAD** REQUIREMENTS.

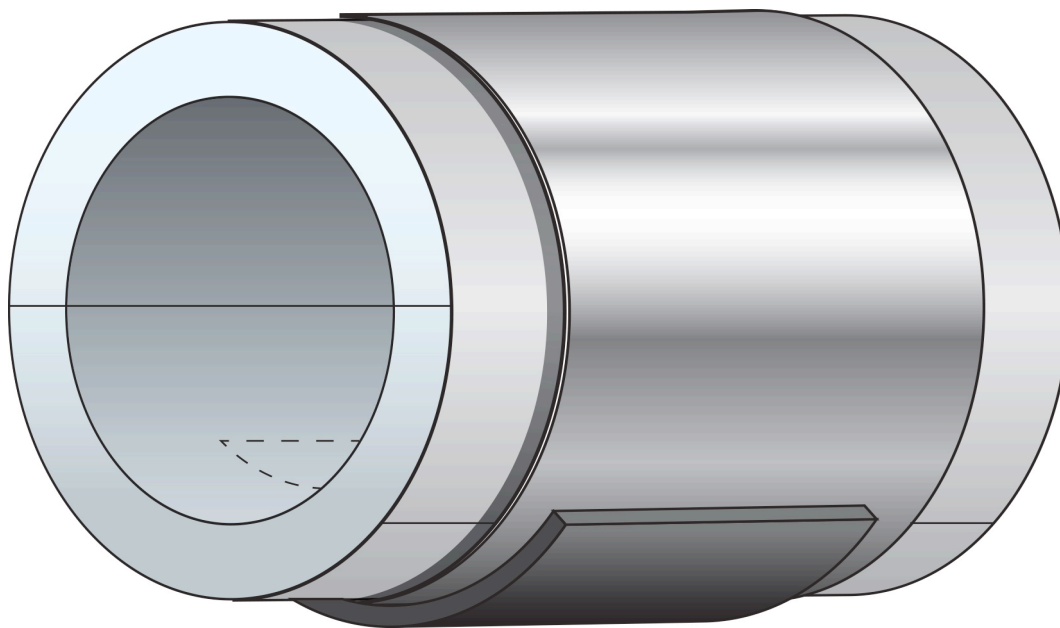
MATERIAL DATA:

TEMPERATURE RANGE	+75F TO +1200F (+40F TO 1200F WITH VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	13.0 pcf	ASTM C 302
WATER ABSORPTION	0.4% BY VOLUME- AVG	ASTM C 610
COMPRESSIVE STRENGTH	80 psi	ASTM C 165
SURFACE BURNING	FLAME SPREAD 0	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 0	
THERMAL CONDUCTIVITY	Mn TEMP=100F 0.44 BTU-in/hr-SF-F	ASTM C 177
	Mn TEMP=200F 0.48 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.57 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.68 BTU-in/hr-SF-F	

AMIS 100-LHI PERLITE PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PERLITE PIPE INSULATION
- * 90 DEGREES HEAVY DENSITY MARINITE STRUCTURAL INSERT



APPLICATION:

Because Perlite is water resistant, model AMIS-100 LH is recommended for any medium and high temperature system located outdoors, or any place where moisture is a concern. For installation on flat surfaces, clevis and roller hanger systems to meet **extreme load** requirements.



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MODEL - AMIS 100-LHI PERLITE PRE-INSULATED PIPE SUPPORT SYSTEM WITH WATER RESISTANT PIPE INSULATION

"water tight!"

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- WATER RESISTANT
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER

- HIGH SUPPORT STRENGTH
- HIGH CORROSION RESISTANCE
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- 90 DEGREES STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA

- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

WATER RESISTANT DESIGN FOR THE FOLLOWING SPECIAL APPLICATIONS:

- COLD WATER
- CHILLED WATER SYSTEMS
- PROCESS COOLING WATER
- OUTDOORS

BECAUSE PERLITE IS WATER RESISTANT, MODEL **AMIS 100** IS RECOMMENDED FOR MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS LOCATED OUTDOORS, OR ANY PLACE WHERE MOISTURE IS A CONCERN. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET **EXTREME LOAD** REQUIREMENTS.

MATERIAL DATA:

TEMPERATURE RANGE	+75F TO +1200F (+40F TO 1200F WITH VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	13.0 pcf	ASTM C 302
WATER ABSORPTION	0.4% BY VOLUME- AVG	ASTM C 610
COMPRESSIVE STRENGTH	80 psi PERLITE	ASTM C 165
	450psi or 900psi INSERT	ASTM C 533, C 795
SURFACE BURNING	FLAME SPREAD 0	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 0	
THERMAL CONDUCTIVITY	Mn TEMP=100F 0.44 BTU-in/hr-SF-F	ASTM C 177
	Mn TEMP=200F 0.48 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.57 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.68 BTU-in/hr-SF-F	

AMIS 200 SERIES PIPE SUPPORTS



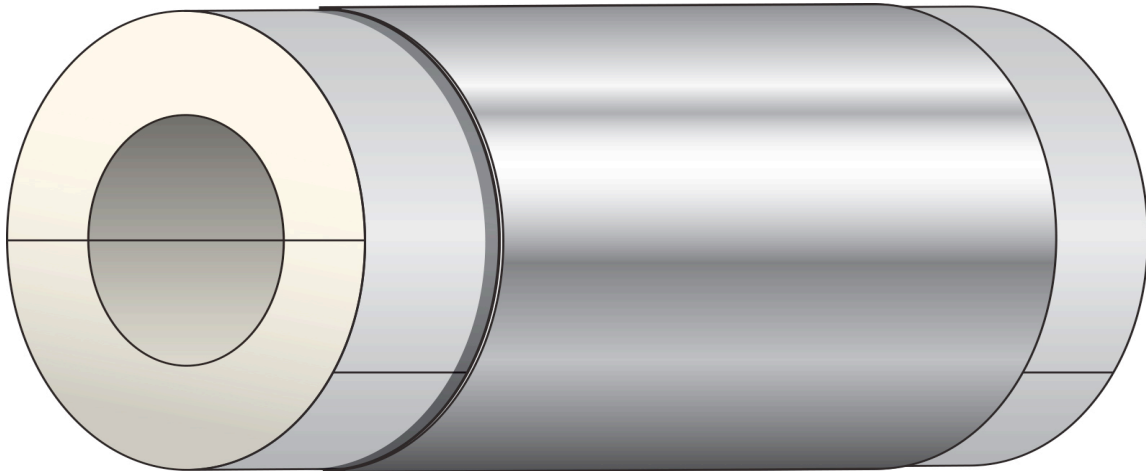
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AMIS 200 CAL SIL PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * CALCIUM SILICATE PIPE INSULATION



APPLICATION:

AMIS 200 Calsil is designed for use on medium and high temperature piping systems or for cold application when a vapor barrier is applied. High temperature applications include heat transfer systems for hot water, fuel oil, steam condensate, super heated steam, petroleum and process piping and generator exhaust. Cold temperature applications include cold water systems, chilled water systems, and rain water conductors. Manufactured for installation on flat surfaces and clevis hanger systems.



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MODEL - AMIS 200 CAL SIL (CALMAX)

PRE-INSULATED PIPE SUPPORT SYSTEM
WITH HIGH STRENGTH/HIGH TEMPERATURE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- HIGH TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- 360 METAL SHIELD
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER FOR COLD OR CHILLED WATER APPLICATIONS
- NON-ASBESTOS CAL-SIL
- NON-COMBUSTIBLE
- FLARED METAL SHIELDS
- LIGHT WEIGHT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 200 CALSIL IS DESIGNED FOR USE ON MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS OR FOR COLD APPLICATION WHEN A VAPOR BARRIER IS APPLIED. HIGH TEMPERATURE APPLICATIONS INCLUDE HEAT TRANSFER SYSTEMS FOR HOT WATER, FUEL OIL, STEAM CONDENSATE, SUPER HEATED STEAM, PETROLEUM AND PROCESS PIPING AND GENERATOR EXHAUST. COLD TEMPERATURE APPLICATIONS INCLUDE COLD WATER SYSTEMS, CHILLED WATER SYSTEMS, AND RAIN WATER CONDUCTORS. MANUFACTURED FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS.

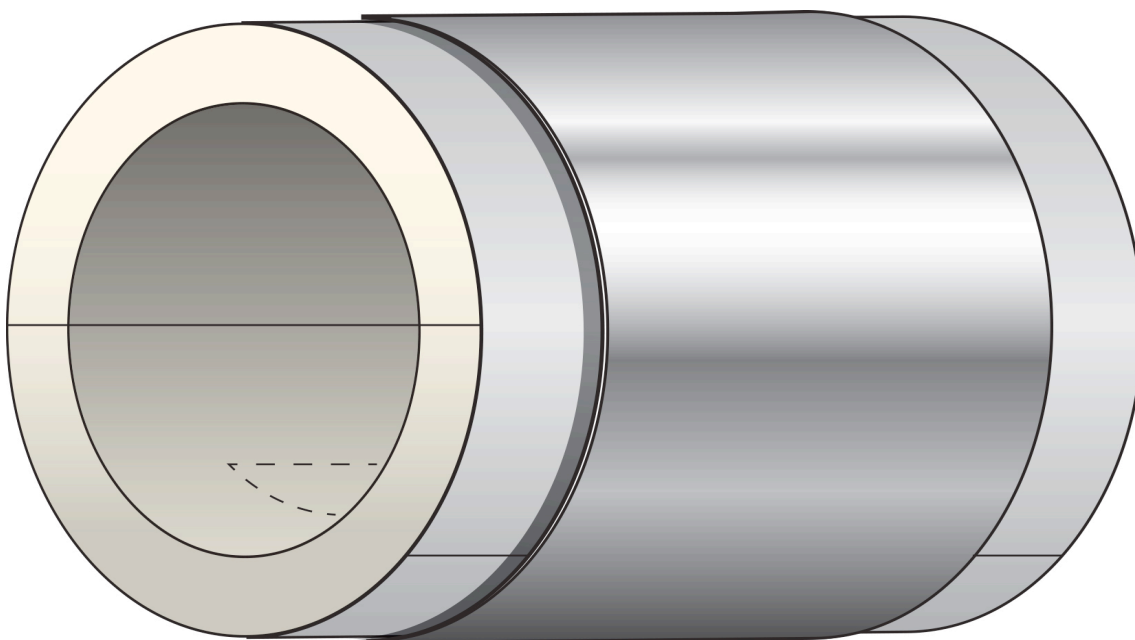
MATERIAL DATA:

TEMPERATURE RANGE	+100F TO 1200F (+40F TO 1200F W/VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	14 pcf	ASTM C 302
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
WATER-REPELLENT	PASSES	ASTM C 533, TYPE I
COMPRESSIVE STRENGTH	100psi	ASTM C 165
CAL-SIL SURFACE BURNING CHARACTERISTICS	FLAME SPREAD 0	ASTM E 84
THERMAL CONDUCTIVITY	SMOKE DEVELOPMENT 0	
	Mn TEMP=100F 0.31 BTU-in/hr-SF-F	ASTM C 335
	Mn TEMP=200F 0.36 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.41 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.49 BTU-in/hr-SF-F	

AMIS 200 I CAL SIL PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * CALCIUM SILICATE PIPE INSULATION WITH INTEGRATED STRUCTURAL INSERT FABRICATED INTO THE BOTTOM PORTION OF SUPPORT.



APPLICATION:

AMIS 200 Cal Sil is designed for use on medium and high temperature piping systems or for cold applications when a vapor barrier is applied. High temperature applications include heat transfer systems for hot water, fuel oil, steam condensate, super-heated steam, petroleum and process piping and generator exhaust. Cold temperature applications include cold water systems, chilled water systems, and rain water conductors. Manufactured for installation on flat surfaces and clevis hanger systems.



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MODEL - AMIS 200 I CAL SIL

PRE-INSULATED PIPE SUPPORT SYSTEM

WITH HIGH STRENGTH/HIGH TEMPERATURE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- HIGH TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- 360 METAL SHIELD
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- NON-ASBESTOS CAL-SIL
- NON-COMBUSTIBLE
- FLARED METAL SHIELDS
- LIGHT WEIGHT
- INDIVIDUALLY LABELED
- PROVIDED WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 200 CALSIL IS DESIGNED FOR USE ON MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS OR FOR COLD APPLICATION WHEN A VAPOR BARRIER IS APPLIED. HIGH TEMPERATURE APPLICATIONS INCLUDE HEAT TRANSFER SYSTEMS FOR HOT WATER, FUEL OIL, STEAM CONDENSATE, SUPER HEATED STEAM, PETROLEUM AND PROCESS PIPING AND GENERATOR EXHAUST. COLD TEMPERATURE APPLICATIONS INCLUDE COLD WATER SYSTEMS, CHILLED WATER SYSTEMS, AND RAIN WATER CONDUCTORS. MANUFACTURED FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS.

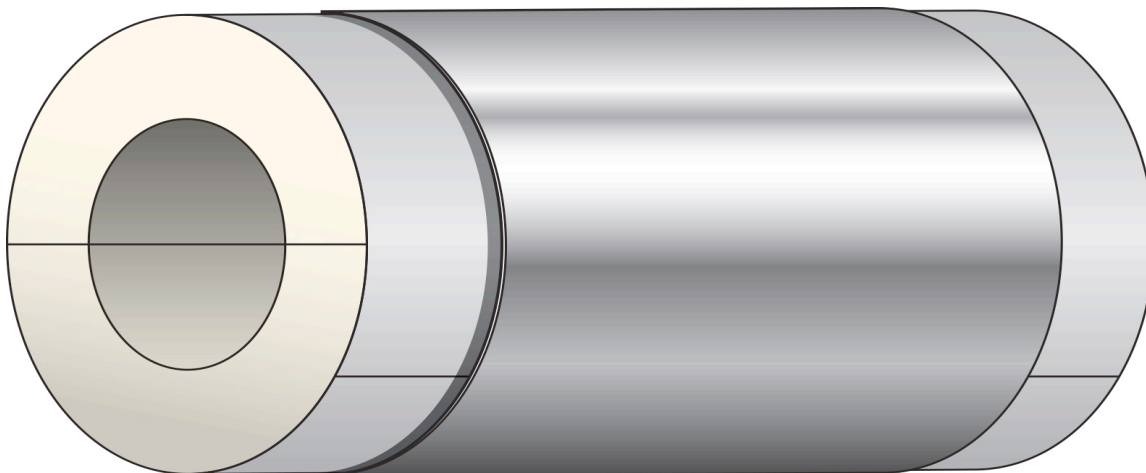
MATERIAL DATA:

TEMPERATURE RANGE	+100F TO +1200F (+40F TO 1200F WITH VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	14 PCF	ASTM C 302
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
WATER-REPELLENT	PASSES	ASTM C 533, TYPE I
COMPRESSIVE STRENGTH	100psi CAL SIL	ASTM C 165
	450psi/900psi INSERT	ASTM C 533, C 795
CAL-SIL SURFACE BURNING	FLAME SPREAD 0	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 0	
THERMAL CONDUCTIVITY	Mn TEMP=100F 0.31 BTU-in/hr-SF-F	ASTM C 335
	Mn TEMP=200F 0.36 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.41 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.49 BTU-in/hr-SF-F	

AMIS 200-DB CAL SIL PIPE SUPPORT SYSTEM

FEATURES:

- * BOTTOM SHIELD IS "DOUBLED-UP" TO PROVIDE EXTRA SUPPORT FOR MODERATE LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * CALCIUM SILICATE PIPE INSULATION



APPLICATION:

AMIS 200 Calsil is designed for use on medium and high temperature piping systems or for cold applications when a vapor barrier is applied. High temperature applications include heat transfer systems for hot water, fuel oil, steam condensate, super heated steam, petroleum and process piping and generator exhaust. Cold temperature applications include cold water systems, chilled water systems, and rain water conductors. Manufactured for installation on flat surfaces, clevis and roller support systems to meet **moderate load** requirements.



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MODEL - AMIS 200-DB CAL SIL

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH STRENGTH/HIGH TEMPERATURE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- HIGH TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- 360 METAL SHIELD
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER FOR COLD OR CHILLED WATER APPLICATIONS
- NON-ASBESTOS CAL-SIL
- NON-COMBUSTIBLE
- FLARED METAL SHIELDS
- LIGHT WEIGHT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 200 CALSIL IS DESIGNED FOR USE ON MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS OR FOR COLD APPLICATIONS WHEN A VAPOR BARRIER IS APPLIED. HIGH TEMPERATURE APPLICATIONS INCLUDE HEAT TRANSFER SYSTEMS FOR HOT WATER, FUEL OIL, STEAM CONDENSATE, SUPER HEATED STEAM, PETROLEUM AND PROCESS PIPING AND GENERATOR EXHAUST. COLD TEMPERATURE APPLICATIONS INCLUDE COLD WATER SYSTEMS, CHILLED WATER SYSTEMS, AND RAIN WATER CONDUCTORS. MANUFACTURED FOR INSTALLATION ON FLAT SURFACES, CLEVIS, AND ROLLER SUPPORT SYSTEMS TO MEET **MODERATE LOAD** REQUIREMENTS.

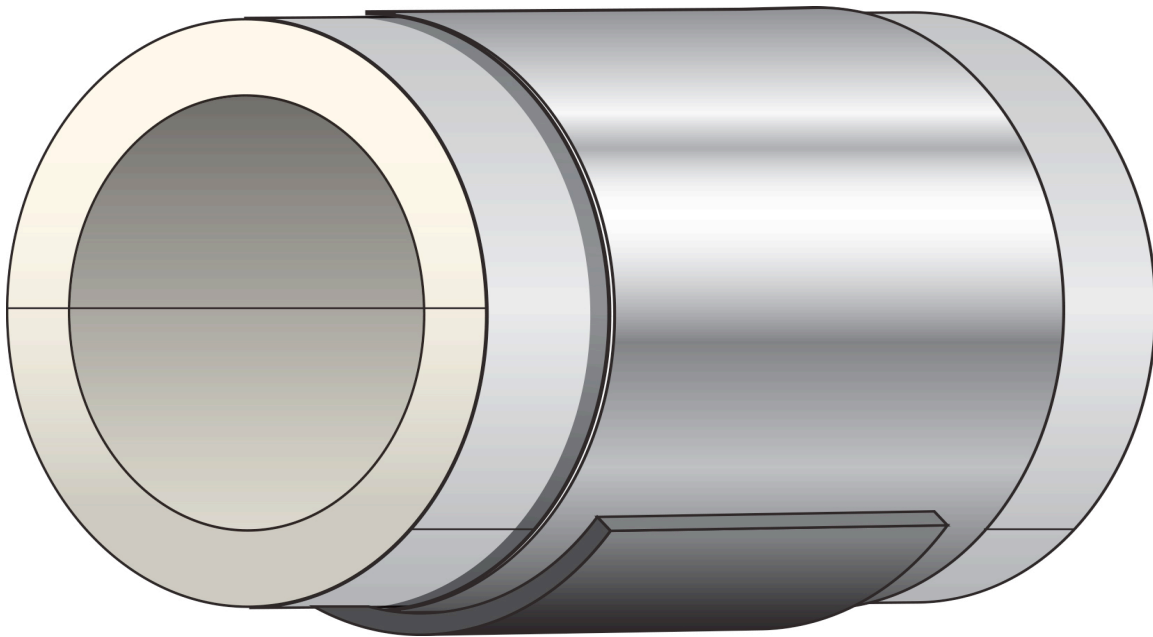
MATERIAL DATA:

TEMPERATURE RANGE	+100F TO 1200F (+40F TO 1200F W/VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	14 pcf	ASTM C 302
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
WATER-REPELLENT	PASSES	ASTM C 533, TYPE I
COMPRESSIVE STRENGTH	100psi	ASTM C 165
CAL-SIL SURFACE BURNING CHARACTERISTICS	FLAME SPREAD 0	ASTM E 84
THERMAL CONDUCTIVITY	SMOKE DEVELOPMENT 0	
	Mn TEMP=100F 0.31 BTU-in/hr-SF-F	ASTM C 335
	Mn TEMP=200F 0.36 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.41 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.49 BTU-in/hr-SF-F	

AMIS 200-LH CAL SIL PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * CALCIUM SILICATE PIPE INSULATION



APPLICATION:

AMIS 200 Cal Sil is designed for use on medium and high temperature piping systems or for cold applications when a vapor barrier is applied. High temperature applications include heat transfer systems for hot water, fuel oil, steam condensate, super heated steam, petroleum and process piping and generator exhaust. Cold temperature applications include cold water systems, chilled water systems, and rain water conductors. Manufactured for installation on flat surfaces, clevis and roller support systems to meet **heavy load** requirements.



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MODEL - AMIS 200-LH CAL SIL

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH STRENGTH/HIGH TEMPERATURE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- HIGH TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- 360 METAL SHIELD
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER FOR COLD OR CHILLED WATER APPLICATIONS
- NON-ASBESTOS CAL-SIL
- NON-COMBUSTIBLE
- FLARED METAL SHIELDS
- LIGHT WEIGHT
- INDIVIDUALLY LABELED

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 200 CALSIL IS DESIGNED FOR USE ON MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS OR FOR COLD APPLICATIONS WHEN A VAPOR BARRIER IS APPLIED. HIGH TEMPERATURE APPLICATIONS INCLUDE HEAT TRANSFER SYSTEMS FOR HOT WATER, FUEL OIL, STEAM CONDENSATE, SUPER HEATED STEAM, PETROLEUM AND PROCESS PIPING AND GENERATOR EXHAUST. COLD TEMPERATURE APPLICATIONS INCLUDE COLD WATER SYSTEMS, CHILLED WATER SYSTEMS, AND RAIN WATER CONDUCTORS. MANUFACTURED FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER SUPPORT SYSTEMS TO MEET **HEAVY LOAD** REQUIREMENTS.

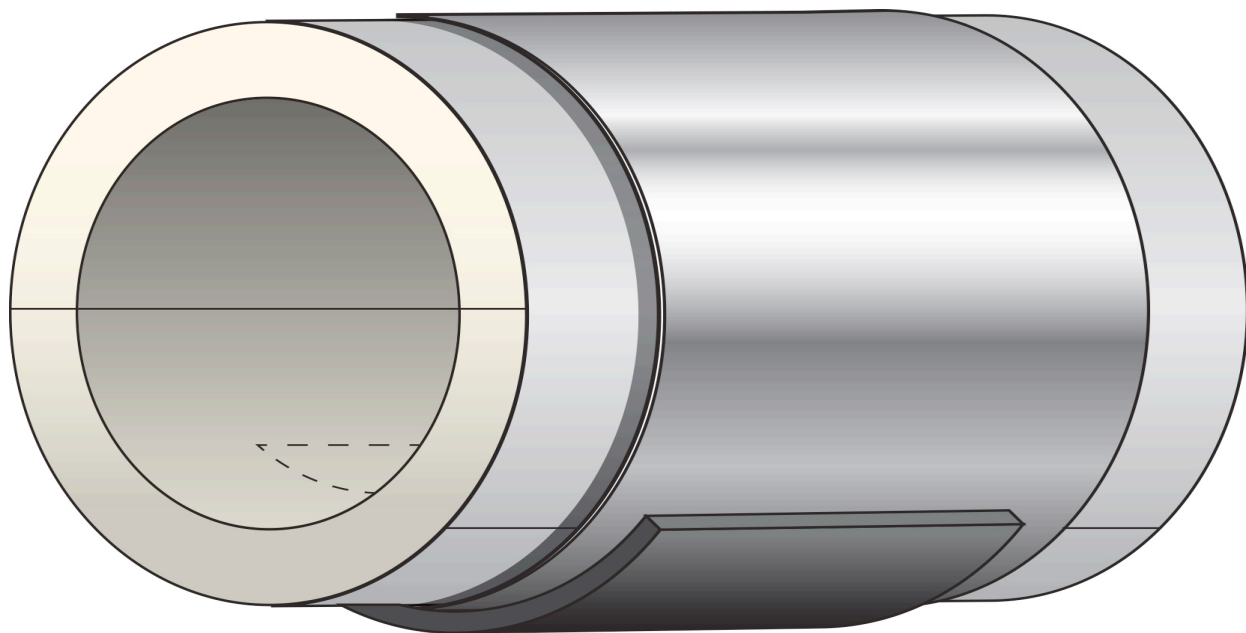
MATERIAL DATA:

TEMPERATURE RANGE	+100F TO 1200F (+40F TO 1200F W/VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	14 pcf	ASTM C 302
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
WATER-REPELLENT	PASSES	ASTM C 533, TYPE I
COMPRESSIVE STRENGTH	100psi	ASTM C 165
CAL-SIL SURFACE BURNING CHARACTERISTICS	FLAME SPREAD 0	ASTM E 84
THERMAL CONDUCTIVITY	SMOKE DEVELOPMENT 0	
	Mn TEMP=100F 0.31 BTU-in/hr-SF-F	ASTM C 335
	Mn TEMP=200F 0.36 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.41 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.49 BTU-in/hr-SF-F	

AMIS 200-LHI CAL SIL PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * CALCIUM SILICATE PIPE INSULATION
- * 90 DEGREES HEAVY DENSITY MARINITE STRUCTURAL INSERT



APPLICATION:

AMIS 200 Cal Sil is designed for use on medium and high temperature piping systems or for cold application when a vapor barrier is applied. High temperature applications include heat transfer systems for hot water, fuel oil, steam condensate, super heated steam, petroleum and process piping and generator exhaust. Cold temperature applications include cold water systems, chilled water systems, and rain water conductors. Manufactured for installation on flat surfaces, clevis and roller support systems to meet extreme load requirements.



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MODEL - AMIS 200-LHI CAL SIL

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH STRENGTH/HIGH TEMPERATURE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- HIGH TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- 360 METAL SHIELD
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER FOR COLD OR CHILLED WATER APPLICATIONS
- NON-ASBESTOS CAL-SIL
- NON-COMBUSTIBLE
- FLARED METAL SHIELDS
- LIGHT WEIGHT
- INDIVIDUALLY LABELED
- 90 DEGREES STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 200 CALSIL IS DESIGNED FOR USE ON MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS OR FOR COLD APPLICATION WHEN A VAPOR BARRIER IS APPLIED. HIGH TEMPERATURE APPLICATIONS INCLUDE HEAT TRANSFER SYSTEMS FOR HOT WATER, FUEL OIL, STEAM CONDENSATE, SUPER HEATED STEAM, PETROLEUM AND PROCESS PIPING AND GENERATOR EXHAUST. COLD TEMPERATURE APPLICATIONS INCLUDE COLD WATER SYSTEMS, CHILLED WATER SYSTEMS, AND RAIN WATER CONDUCTORS. MANUFACTURED FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER SUPPORT SYSTEMS TO MEET **EXTREME LOAD** REQUIREMENTS.

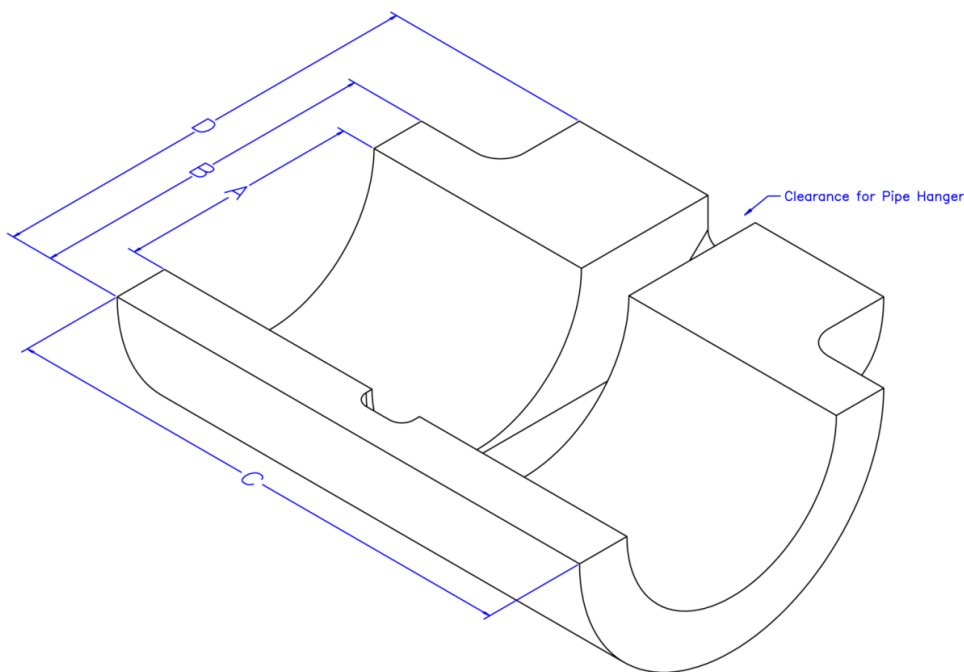
MATERIAL DATA:

TEMPERATURE RANGE	+100F TO 1200F (+40F TO 1200F W/VAPOR BARRIER)	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	14 pcf	ASTM C 302
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
WATER-REPELLENT	PASSES	ASTM C 533, TYPE I
COMPRESSIVE STRENGTH	100psi CAL SIL	ASTM C 165
	450psi/900psi INSERT	ASTM C 533/C 795
CAL-SIL SURFACE BURNING CHARACTERISTICS	FLAME SPREAD 0	ASTM E 84
	SMOKE DEVELOPMENT 0	
THERMAL CONDUCTIVITY	Mn TEMP=100F 0.31 BTU-in/hr-SF-F	ASTM C 335
	Mn TEMP=200F 0.36 BTU-in/hr-SF-F	
	Mn TEMP=400F 0.41 BTU-in/hr-SF-F	
	Mn TEMP=600F 0.49 BTU-in/hr-SF-F	

AMIS 233 CLEVOR H2 Patent Pending MINERAL WOOL INSULATION CLEVIS HANGER COVER

FEATURES:

- * TWO HALVES SURROUND AND INSULATE CLEVIS HANGER AND PIPE
- * MINERAL WOOL INSULATION WITH .020 WHITE PVC COVER



APPLICATION:

AMIS 233 H2 Mineral Wool Covers designed for use on medium and high temperature piping systems. High temperature applications include plumbing, hot-water heating, heat transfer systems for hot water, fuel oil, steam condensate, super-heated steam, petroleum and process piping and generator exhaust. For installation over clevis hangers when pre-insulated pipe supports aren't used.



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MODEL - AMIS 233 CLEVOR H2 COVER Patent Pending
INSULATED PIPE SUPPORT COVER SYSTEM
WITH PLENUM-RATED MINERAL WOOL INSULATION AND .020 WHITE PVC COVER

FEATURES:

COST SAVINGS

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- HIGH TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- INDIVIDUALLY LABELED
- 1,200F MINERAL WOOL INSULATION
- NON-COMBUSTIBLE
- LIGHT WEIGHT

DELIVERY

- NEVER WAIT AGAIN
- FREE DELIVERY
- PACKAGED/TAGGED FOR SPECIFIC JOBSITE AREA
- **SAVE TIME & \$\$\$\$**
- ORDER AS NEEDED

APPLICATION:

AMIS 233 H2 IS DESIGNED FOR USE ON MEDIUM AND HIGH TEMPERATURE PIPING SYSTEMS. HIGH TEMPERATURE APPLICATIONS INCLUDE PLUMBING, HEATING HOT WATER, HEAT TRANSFER SYSTEMS FOR HOT WATER, FUEL OIL, STEAM CONDENSATE, SUPER HEATED STEAM, PETROLEUM AND PROCESS PIPING AND GENERATOR EXHAUST. FOR INSTALLATION OVER CLEVIS HANGERS WHERE PIPE MOVEMENT IS ISOLATED OR ELIMINATED, AND WHEN PRE-INSULATED PIPE SUPPORTS AREN'T USED.

MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
DENSITY	2.0 pcf	ASTM D 1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 450	
THERMAL CONDUCTIVITY	Mn TEMP= 75F 0.20 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	PERM-INCH= 1.1	ASTM C 96
CLOSED CELL CONTENT	95%	ASTM D 2856

AMIS 300 SERIES PIPE SUPPORTS



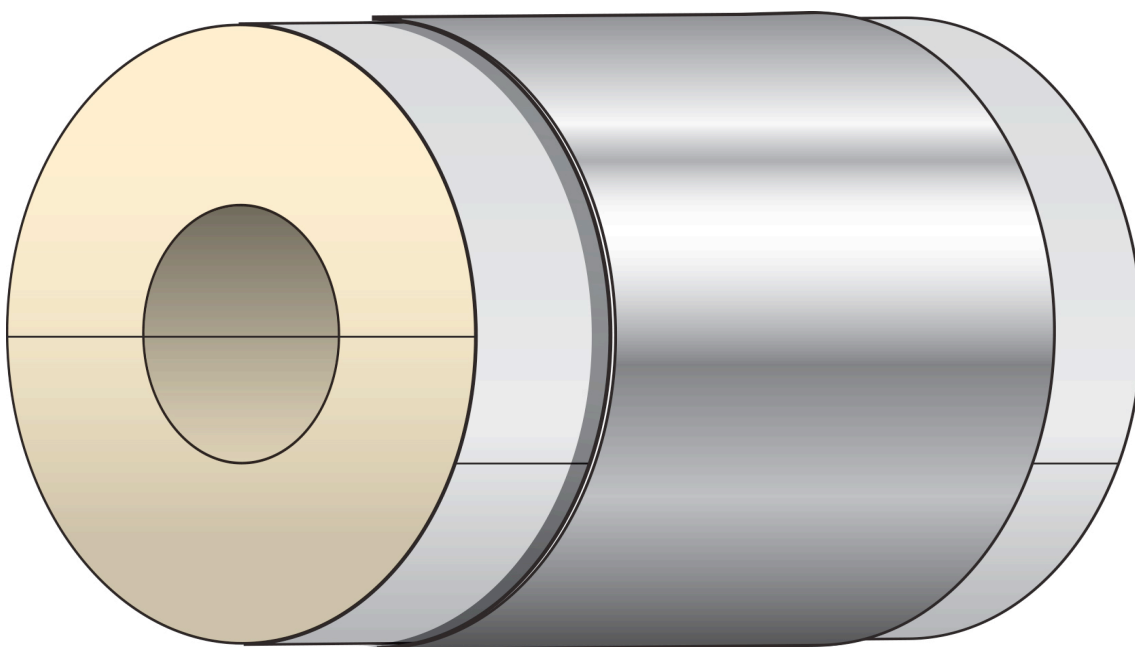
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AMIS 300 POLYISOCYANURATE PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * POLYISOCYANURATE PIPE INSULATION



APPLICATION:

AMIS 300 Polyisocyanurate is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces and clevis hanger systems.



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MODEL - AMIS 300 POLYISOCYANURATE

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH DENSITY POLYISOCYANURATE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 180 DEGREE OR 360 DEGREE METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 300 POLYISOCYANURATE IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS.

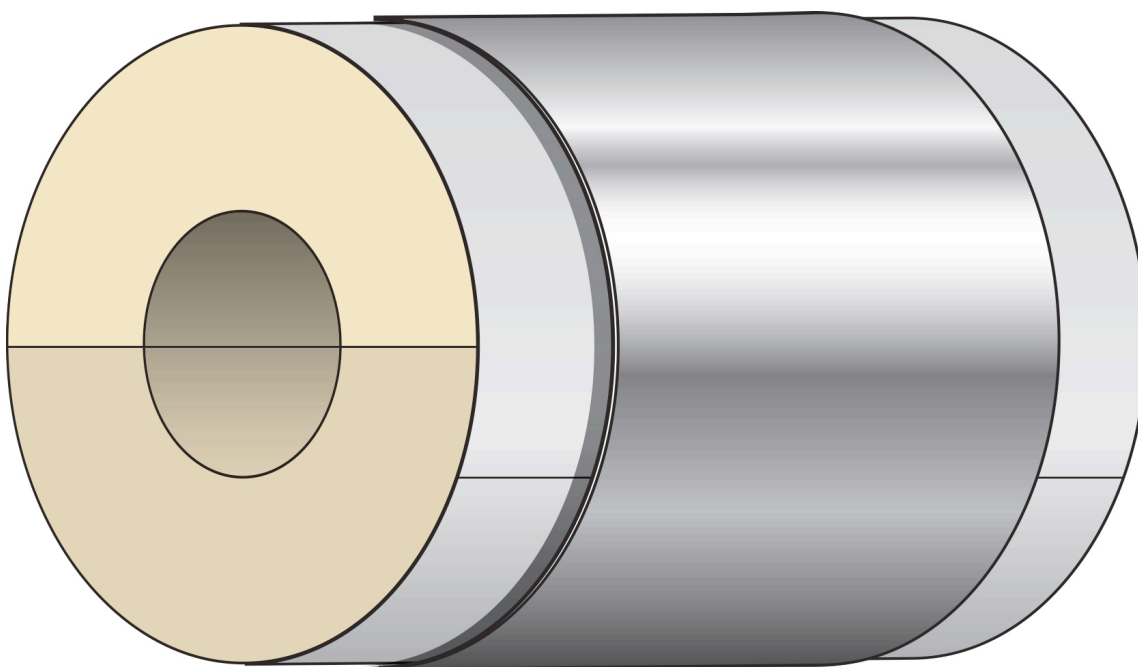
MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	6.0 pcf	ASTM D 1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
COMPRESSIVE STRENGTH	140psi	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 450	
THERMAL CONDUCTIVITY	Mn TEMP= 75F 0.20 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	PERM-INCH= 1.1	ASTM C 96
CLOSED CELL CONTENT	95%	ASTM D 2856

AMIS 300 I POLYISOCYANURATE PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * 6# PCF POLYISOCYANURATE PIPE INSULATION BOTTOM



APPLICATION:

AMIS 300 Polyisocyanurate is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces and clevis hanger systems.



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MODEL - AMIS 300 I POLYISOCYANURATE

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM

WITH HIGH DENSITY 180 DREGREE BOTTOM POLYISOCYANURATE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER

- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 DEGREE METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- PROVIDED WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA

- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 300 POLYISOCYANURATE IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS.

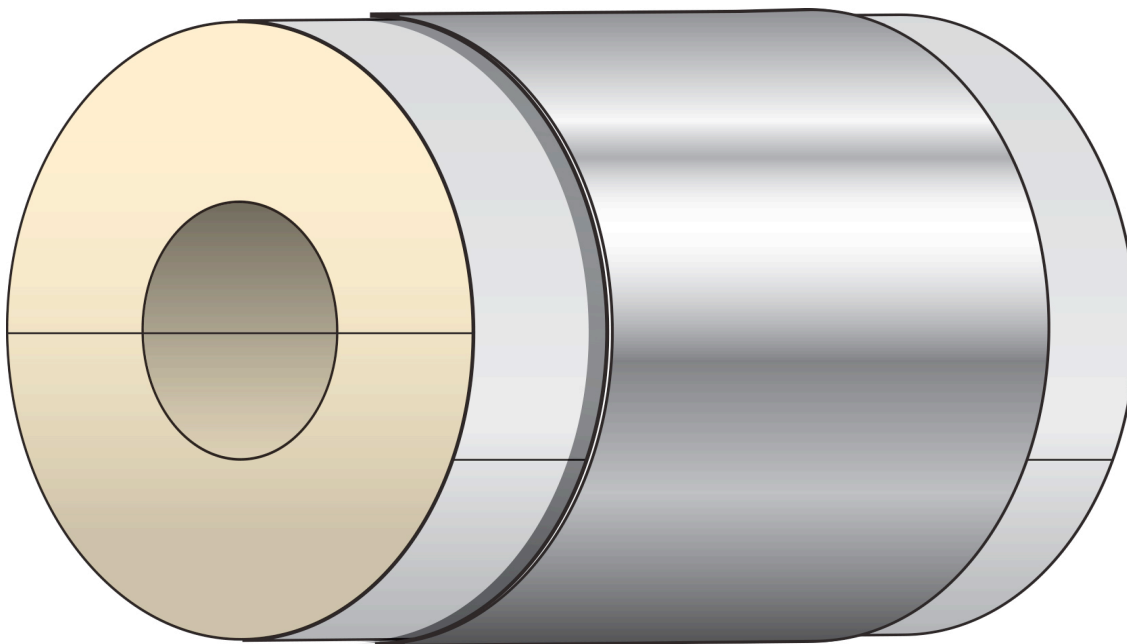
MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	6.0 pcf	ASTM D 1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
COMPRESSIVE STRENGTH	140psi	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 450	
THERMAL CONDUCTIVITY	Mn TEMP= 75F 0.20 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	PERM-INCH= 1.1	ASTM C 96
CLOSED CELL CONTENT	95%	ASTM D 2856

AMIS 300-DB POLYISOCYANURATE PIPE SUPPORT SYSTEM

FEATURES:

- * BOTTOM SHIELD IS "DOUBLED-UP" TO PROVIDE EXTRA SUPPORT FOR MODERATE LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * POLYISOCYANURATE PIPE INSULATION



APPLICATION:

AMIS 300 Polyisocyanurate is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces, clevis and roller hanger systems to meet **moderate load** requirements.



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MODEL - AMIS 300-DB POLYISOCYANURATE

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM
WITH HIGH DENSITY POLYISOCYANURATE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 300 POLYISOCYANURATE IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET MODERATE LOAD REQUIREMENTS.

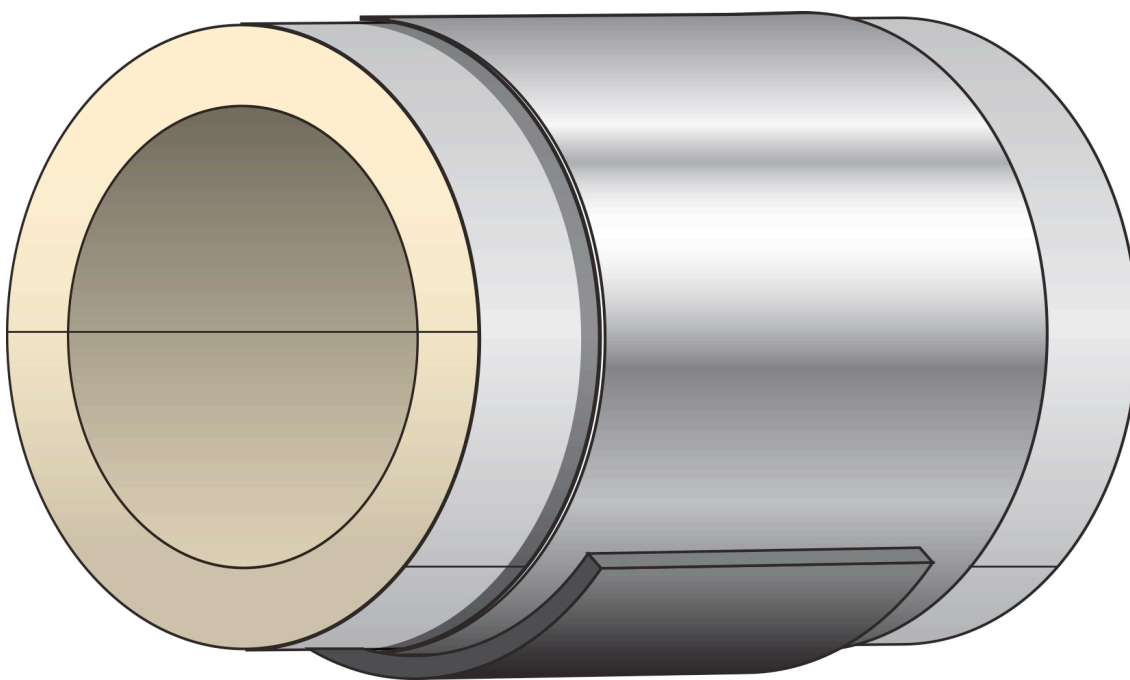
MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	6.0 pcf	ASTM D 1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
COMPRESSIVE STRENGTH	140psi	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 450	
THERMAL CONDUCTIVITY	Mn TEMP= 75F 0.20 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	PERM-INCH= 1.1	ASTM C 96
CLOSED CELL CONTENT	95%	ASTM D 2856

AMIS 300-LH POLYISOCYANURATE PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * POLYISOCYANURATE PIPE INSULATION



APPLICATION:

AMIS 300 Polyisocyanurate is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces, clevis and roller hanger systems to meet heavy load requirements.



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MODEL - AMIS 300-LH POLYISOCYANURATE

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM
WITH HIGH DENSITY POLYISOCYANURATE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 300 POLYISOCYANURATE IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET HEAVY LOAD REQUIREMENTS.

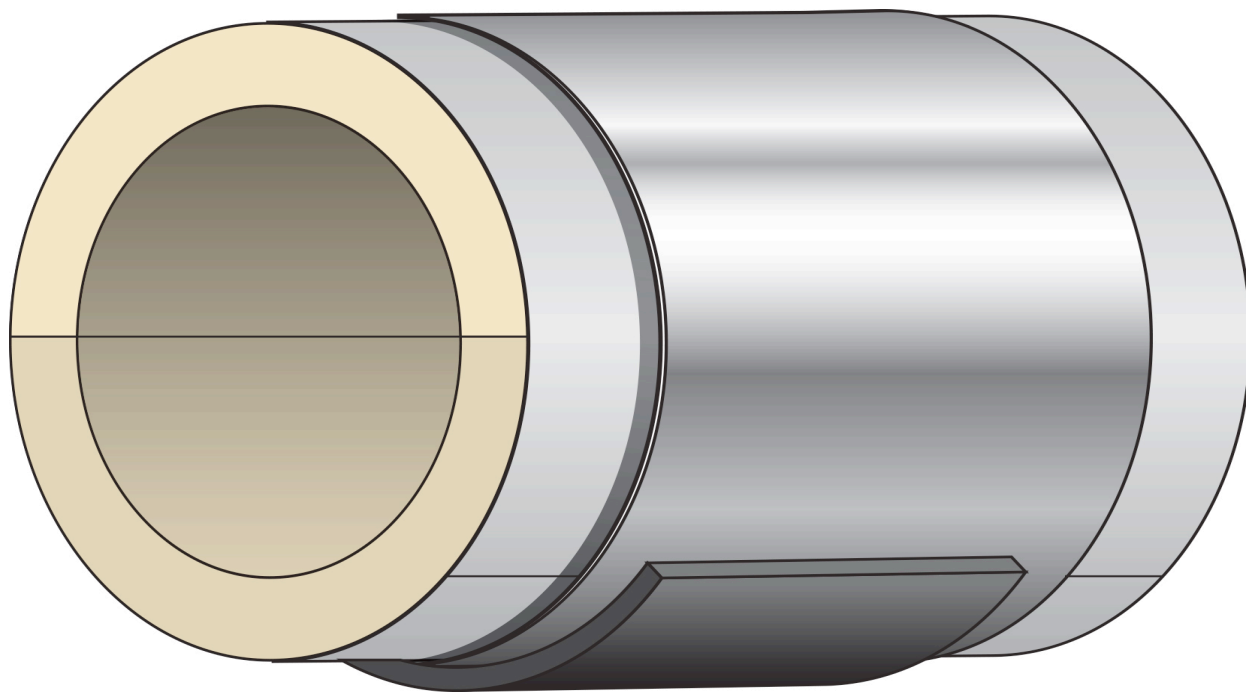
MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	6.0 pcf	ASTM D 1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
COMPRESSIVE STRENGTH	140psi	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 450	
THERMAL CONDUCTIVITY	Mn TEMP= 75F 0.20 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	PERM-INCH= 1.1	ASTM C 96
CLOSED CELL CONTENT	95%	ASTM D 2856

AMIS 300-LHI POLYISOCYANURATE PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * POLYISOCYANURATE PIPE INSULATION
- * 90 DEGREES HEAVY DENSITY POLYISOCYANURATE STRUCTURAL INSERT



APPLICATION:

AMIS 300 Polyisocyanurate is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces, clevis and roller hanger systems to meet **extreme load** requirements.



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MODEL - AMIS 300-LHI POLYISOCYANURATE

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM
WITH HIGH DENSITY POLYISOCYANURATE PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- 90 DEGREES STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCKS SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 300 POLYISOCYANURATE IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET **EXTREME LOAD** REQUIREMENTS.

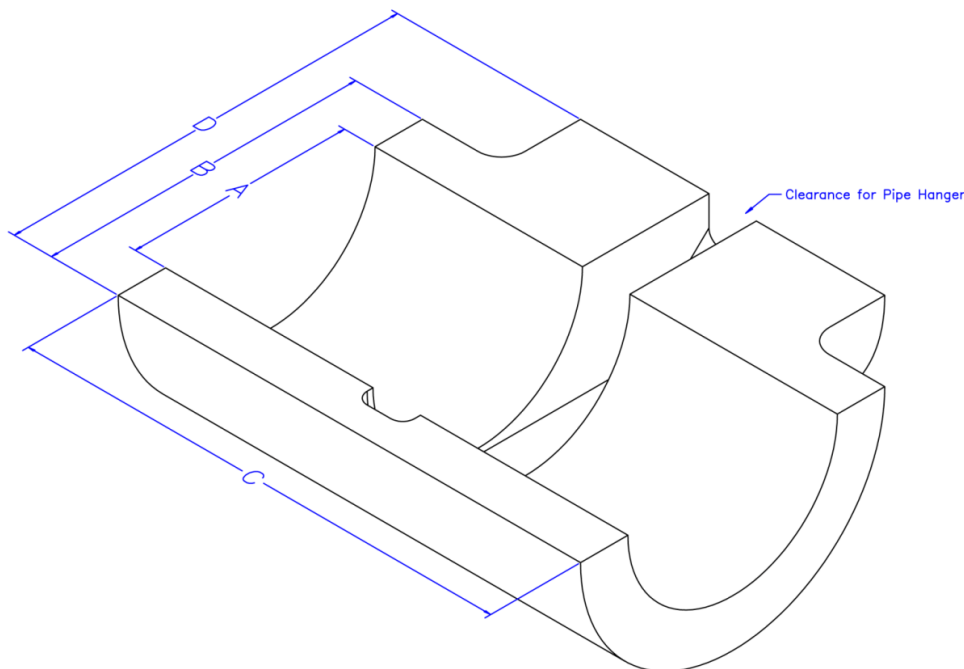
MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
SHIELD PROPERTIES	GALVANIZED CARBON STEEL	ASTM A 527
DENSITY	6.0 pcf	ASTM D 1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E 136
COMPRESSIVE STRENGTH	140psi	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 450	
THERMAL CONDUCTIVITY	Mn TEMP= 75F 0.20 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	PERM-INCH= 1.1	ASTM C 96
CLOSED CELL CONTENT	95%	ASTM D 2856

AMIS 333 CLEVOR H2 Patent Pending POLYISO INSULATION COVER CLEVIS HANGER

FEATURES:

- * TWO HALVES SURROUND AND INSULATE CLEVIS HANGER AND PIPE
- * POLYISOCYANURATE PIPE INSULATION WITH .020 WHITE PVC COVER



APPLICATION:

AMIS 333 Clevor H2 Polyisocyanurate covers are designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation over clevis hangers when pre-insulated pipe supports aren't used.



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MODEL - AMIS 333 CLEVOR H2 COVER Patent Pending

INSULATED PIPE SUPPORT COVER SYSTEM
WITH PLENUM-RATED POLYISOCYANURATE INSULATION & .020 WHITE PVC
COVER

FEATURES:

COST SAVINGS

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FREEZE RESISTANT
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FIRE RESISTANT
- AVAILABLE WITH VAPOR BARRIER

DELIVERY

- NEVER WAIT AGAIN
- FREE DELIVERY
- PACKAGED/TAGGED FOR SPECIFIC JOBSITE AREA
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED

APPLICATION:

AMIS 333 H2 POLYISOCYANURATE IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPING SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION OVER CLEVIS HANGERS WHERE PIPE MOVEMENT IS ISOLATED OR ELIMINATED, AND WHEN PRE-INSULATED PIPE SUPPORTS AREN'T USED.

MATERIAL DATA:

TEMPERATURE RANGE	-297F TO +300F	
DENSITY	3.0 pcf @ 74F	ASTM D1622
COMBUSTIBILITY	NON-COMBUSTIBLE	ASTM E136
COMPRESSIVE STRENGTH	55 psi	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	Mn TEMP=75F 0.172 BTU-in/hr-SF-F	ASTM C 518-91
CLOSED CELL CONTENT 92% @ 74F		ASTM D2856

AMIS 400 SERIES PIPE SUPPORTS



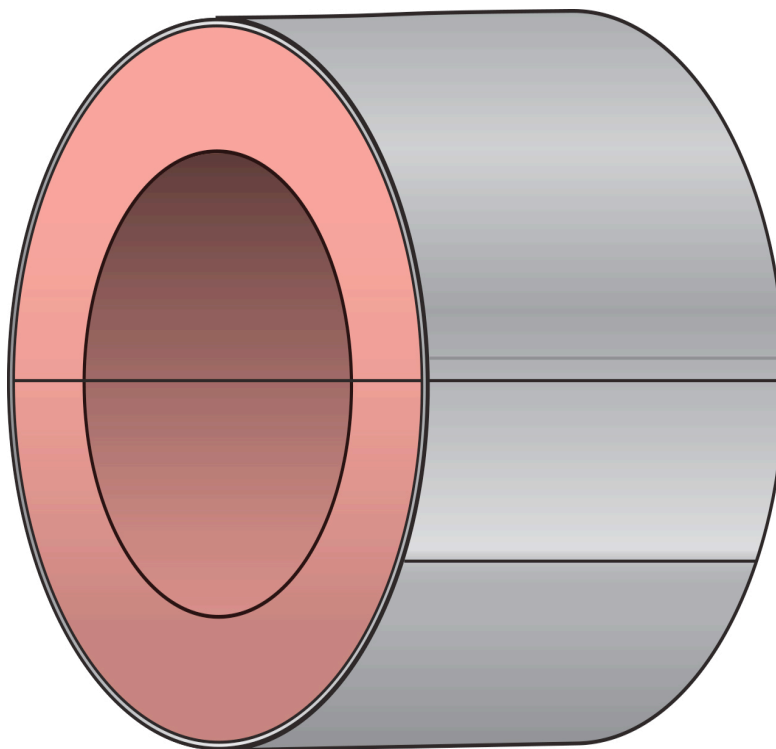
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AMIS 400 NM PHENOLIC PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES NON-METALLIC FIBERGLASS SADDLE
- * PHENOLIC PIPE INSULATION



APPLICATION:

AMIS 400 PHENOLIC is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces and clevis hanger systems where a typical galvanized saddle isn't practical/acceptable.



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MODEL - AMIS 400 NM PHENOLIC

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH DENSITY PHENOLIC PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- ZERO PERM VAPOR BARRIER
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER

- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 FIBACLADSHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- QUICK DELIVERY OF STOCK SIZES
- **SAVE** TIME & \$\$\$\$\$
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA

- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 400 PHENOLIC IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS. THE USE OF FIBACLAD SADDLES ELIMINATE THE USE OF TYPICAL GALVANIZED SADDLES ON APPLICATIONS WHERE METALLIC SADDLES AREN'T RECOMMENDED/REQUIRED.

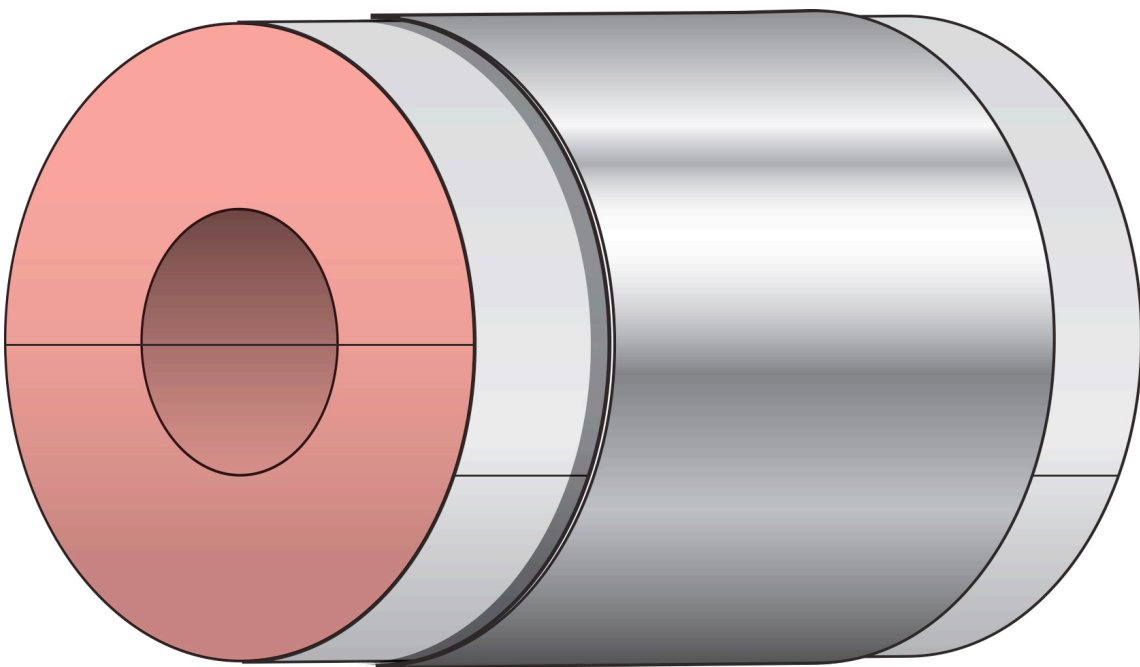
MATERIAL DATA:

TEMPERATURE RANGE	-290F TO +250F	
DENSITY	2.5pcf TO 10.0pcf	ASTM D 1622
COMPRESSIVE STRENGTH	29psi for 2.5 pcf/ 290psi for 10.0 pcf	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	2.5 pcf: Mn TEMP=75F 0.13 BTU-in/hr-SF-F	ASTM C 518
	10.0 pcf: Mn TEMP=75F 0.26 BTU-in/hr-SF-F	
WATER VAPOR PERM.	117 PERM INCH	ASTM E 96
CLOSED CELL CONTENT	MINIMUM 90%	ASTM D 2856
SHIELD PROPERTIES	FIBACLAD FR M1 NON-METALLIC	
FLEXURAL STRENGTH	20.7Ksi	ASTM D 790-03
VAPOR BARRIER	ZERO PERM MEMBRANE	
WATER VAPOR PERMS	0.00 PERMS	ASTM E96

AMIS 400 PHENOLIC PIPE SUPPORT SYSTEM

FEATURES:

- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PHENOLIC PIPE INSULATION



APPLICATION:

AMIS 400 PHENOLIC is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces and clevis hanger systems.



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MODEL - AMIS 400 PHENOLIC

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH DENSITY PHENOLIC PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 400 PHENOLIC IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES AND CLEVIS HANGER SYSTEMS.

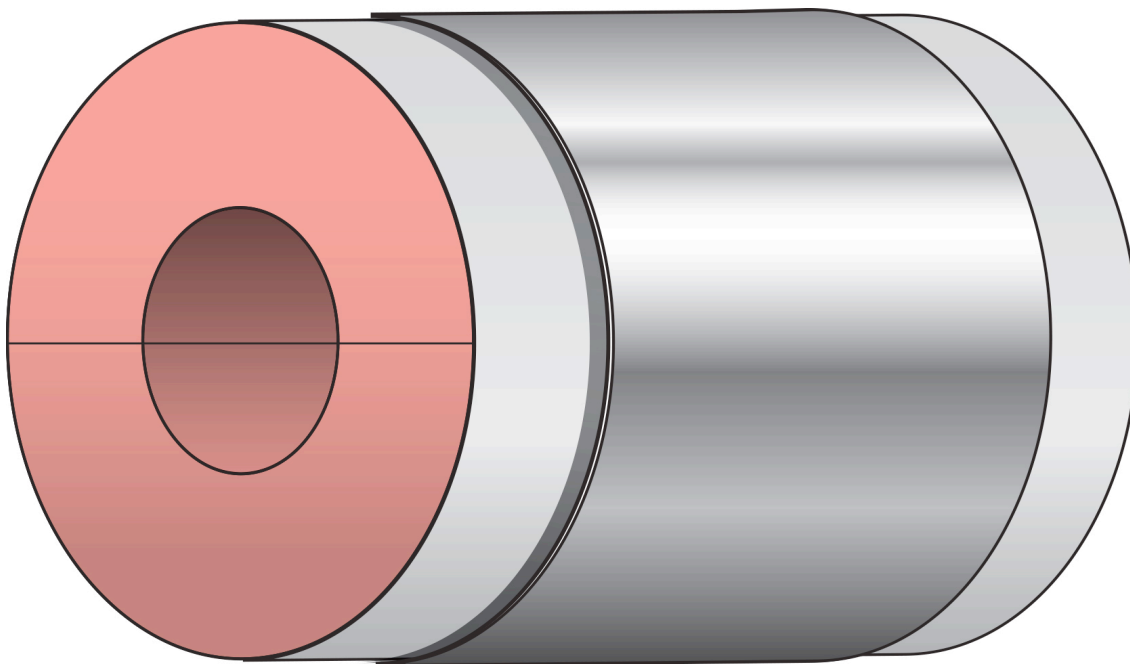
MATERIAL DATA:

TEMPERATURE RANGE	-290F TO +250F	
DENSITY	2.5pcf TO 10.0pcf	ASTM D 1622
COMPRESSIVE STRENGTH	29psi for 2.5 pcf/ 290psi for 10.0 pcf	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	2.5 pcf: Mn TEMP=75F 0.13 BTU-in/hr-SF-F 10.0 pcf: Mn TEMP=75F 0.26 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	117 PERM INCH	ASTM E 96
CLOSED CELL CONTENT	MINIMUM 90%	ASTM D 2856
SHIELD PROPERTIES	FIBACLAD FR M1 NON-METALLIC	
FLEXURAL STRENGTH	20.7Ksi	ASTM D 790-03
VAPOR BARRIER	ZEROPERM MEMBRANE	
WATER VAPOR PERMS	0.00 PERMS	ASTM E96

AMIS 400-DB PHENOLIC PIPE SUPPORT SYSTEM

FEATURES:

- * BOTTOM SHIELD IS "DOUBLED-UP" TO PROVIDE EXTRA SUPPORT FOR MODERATE LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PHENOLIC PIPE INSULATION



APPLICATION:

AMIS 400 PHENOLIC is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces, clevis and roller hanger systems to meet **moderate load** requirements.



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MODEL - AMIS 400-DB PHENOLIC

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH DENSITY PHENOLIC PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- AVAILABLE WITH STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 400 PHENOLIC IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET MODERATE LOAD REQUIREMENTS.

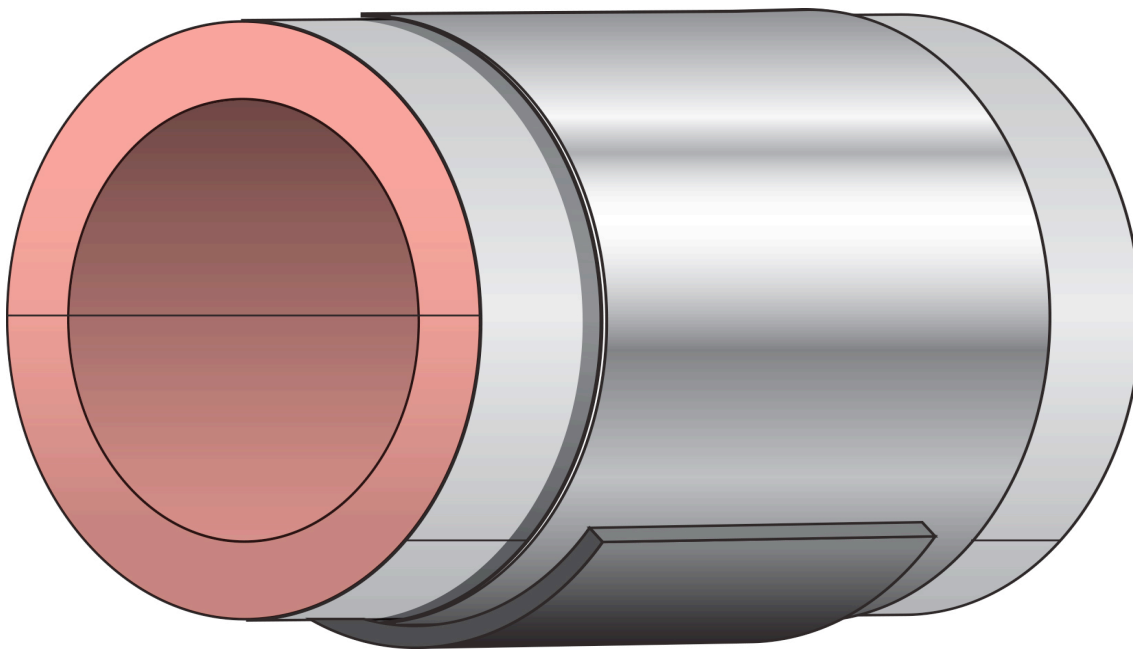
MATERIAL DATA:

TEMPERATURE RANGE	-290F TO +250F	
DENSITY	2.5pcf TO 10.0pcf	ASTM D 1622
COMPRESSIVE STRENGTH	29psi for 2.5 pcf/ 290psi for 10.0 pcf	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	2.5 pcf: Mn TEMP=75F 0.13 BTU-in/hr-SF-F	ASTM C 518
	10.0 pcf: Mn TEMP=75F 0.26 BTU-in/hr-SF-F	
WATER VAPOR PERM.	117 PERM INCH	ASTM E 96
CLOSED CELL CONTENT	MINIMUM 90%	ASTM D 2856
SHIELD PROPERTIES	FIBACLAD FR M1 NON-METALLIC	
FLEXURAL STRENGTH	20.7Ksi	ASTM D 790-03
VAPOR BARRIER	ZEROPERM MEMBRANE	
WATER VAPOR PERMS	0.00 PERMS	ASTM E96

AMIS 400-LH PHENOLIC PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PHENOLIC PIPE INSULATION



APPLICATION:

AMIS 400 PHENOLIC is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces, clevis and roller hanger systems to meet **heavy load** requirements.



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MODEL - AMIS 400-LH PHENOLIC

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH DENSITY PHENOLIC PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER
- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA
- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 400 PHENOLIC IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET HEAVY LOAD REQUIREMENTS.

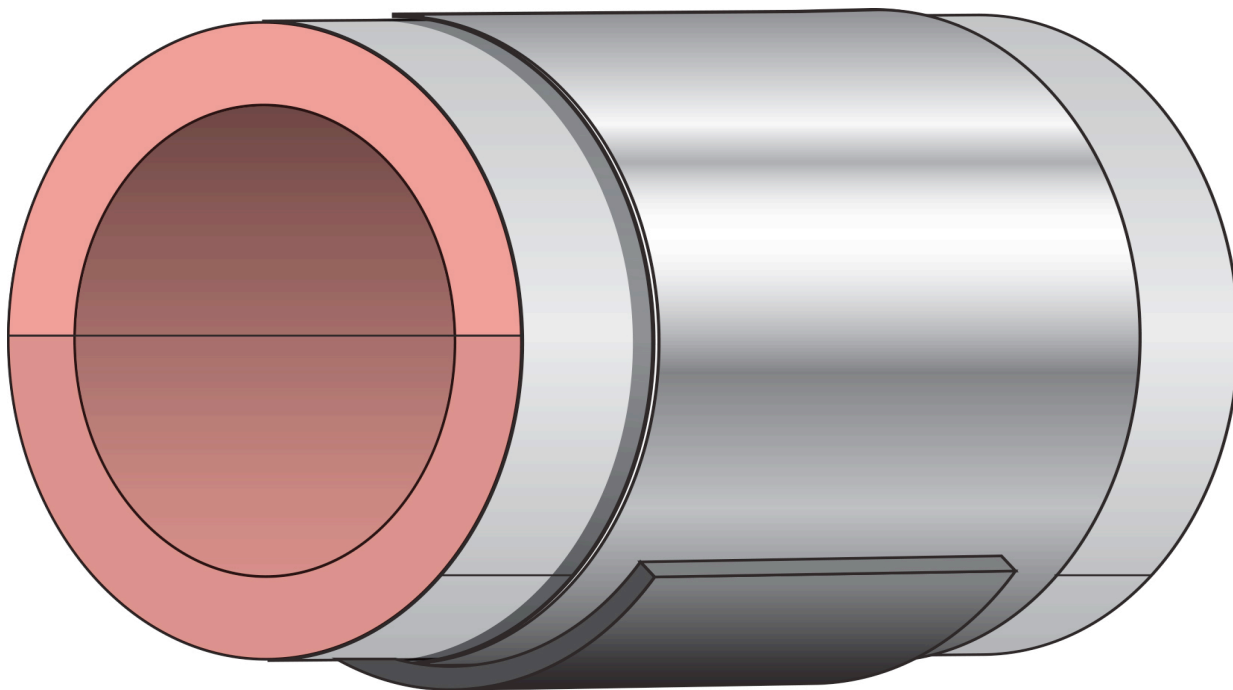
MATERIAL DATA:

TEMPERATURE RANGE	-290F TO +250F	
DENSITY	2.5pcf TO 10.0pcf	ASTM D 1622
COMPRESSIVE STRENGTH	29psi for 2.5 pcf/ 290psi for 10.0 pcf	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	2.5 pcf: Mn TEMP=75F 0.13 BTU-in/hr-SF-F	ASTM C 518
	10.0 pcf: Mn TEMP=75F 0.26 BTU-in/hr-SF-F	
WATER VAPOR PERM.	117 PERM INCH	ASTM E 96
CLOSED CELL CONTENT	MINIMUM 90%	ASTM D 2856
SHIELD PROPERTIES	FIBACLAD FR M1 NON-METALLIC	
FLEXURAL STRENGTH	20.7Ksi	ASTM D 790-03
VAPOR BARRIER	ZEROPERM MEMBRANE	
WATER VAPOR PERMS	0.00 PERMS	ASTM E96

AMIS 400-LHI PHENOLIC PIPE SUPPORT SYSTEM

FEATURES:

- * WELDED BOTTOM LOAD HANDLER PLATE TO PROVIDE MAXIMUM SUPPORT FOR HEAVY LOAD REQUIREMENTS
- * 360 DEGREES GALVANIZED CARBON STEEL SADDLE
- * PHENOLIC PIPE INSULATION
- * 90 DEGREES HEAVY DENSITY PHENOLIC STRUCTURAL INSERT



APPLICATION:

AMIS 400 PHENOLIC is designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation on flat surfaces, clevis, and roller hanger systems to meet extreme load requirements.



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MODEL - AMIS 400-LHI PHENOLIC

"cold stuff!"

PRE-INSULATED PIPE SUPPORT SYSTEM WITH HIGH DENSITY PHENOLIC PIPE INSULATION

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN
- EASY RETURNS

COST SAVINGS

- NO DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FIRE RESISTANT
- CARBON STEEL SHIELD
- EXTENDED INSULATION
- AVAILABLE WITH VAPOR BARRIER

- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FLARED METAL SHIELDS
- 360 METAL SHIELD
- FREEZE RESISTANT
- INDIVIDUALLY LABELED
- 90 DEGREES STRUCTURAL INSERT

DELIVERY

- NEXT DAY DELIVERY OF STOCK SIZES
- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED
- PACKAGED AND TAGGED FOR SPECIFIC JOBSITE AREA

- NEVER WAIT AGAIN
- FREE DELIVERY

APPLICATION:

AMIS 400 PHENOLIC IS DESIGNED FOR USE ON MEDIUM AND LOW TEMPERATURE PIPE SUPPORTS SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION ON FLAT SURFACES, CLEVIS AND ROLLER HANGER SYSTEMS TO MEET EXTREME LOAD REQUIREMENTS.

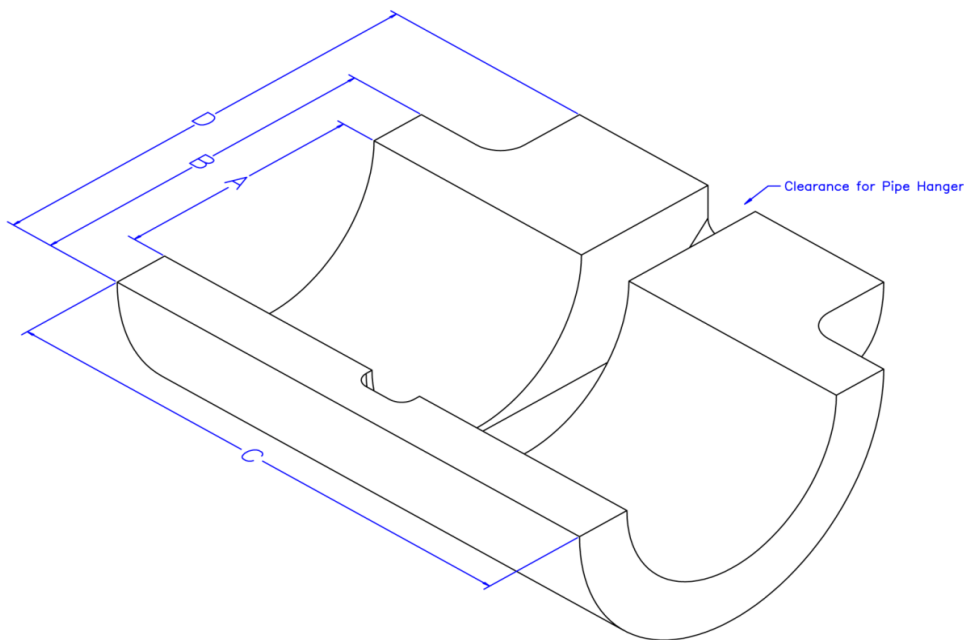
MATERIAL DATA:

TEMPERATURE RANGE	-290F TO +250F	
DENSITY	2.5pcf TO 10.0pcf	ASTM D 1622
COMPRESSIVE STRENGTH	29psi for 2.5 pcf/ 290psi for 10.0 pcf	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	2.5 pcf: Mn TEMP=75F 0.13 BTU-in/hr-SF-F 10.0 pcf: Mn TEMP=75F 0.26 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	117 PERM INCH	ASTM E 96
CLOSED CELL CONTENT	MINIMUM 90%	ASTM D 2856
SHIELD PROPERTIES	FIBACLAD FR M1 NON-METALLIC	
FLEXURAL STRENGTH	20.7Ksi	ASTM D 790-03
VAPOR BARRIER	ZEROPERM MEMBRANE	
WATER VAPOR PERMS	0.00 PERMS	ASTM E96

AMIS 433 CLEVOR H2 Patent Pending PHENOLIC INSULATION COVER CLEVIS HANGER

FEATURES:

- * TWO-HALVES SURROUND AND INSULATE CLEVIS HANGER AND PIPE
- * PHENOLIC FOAM INSULATION WITH .020" WHITE PVC COVER



APPLICATION:

AMIS 433 Clevor H2 PHENOLIC Covers are designed to be used on medium and low temperature piping. Low temperature applications include cold water, chilled water, brine systems, DOWTHERM J systems, and other refrigerant system applications. For installation over clevis hangers when pre-insulated pipe supports aren't used.



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MODEL - AMIS 433 CLEVOR H2 COVER Patent Pending

INSULATED PIPE SUPPORT COVER SYSTEM
WITH PLENUM-RATED PHENOLIC FOAM INSULATION & .020 WHITE PVC COVER

FEATURES:

- NO MINIMUM ORDER REQUIREMENTS
- NEVER OVER PURCHASE AGAIN

- LOW TEMPERATURE APPLICATIONS
- REDUCES NOISE & VIBRATION
- EASY INSTALLATION
- FREEZE RESISTANT

COST SAVINGS

- **NO** DELIVERY CHARGES
- COST COMPETITIVE

QUALITY

- LOW WATER PERMEABILITY
- CRYOGENIC SYSTEM APPLICATION
- FIRE RESISTANT
- AVAILABLE WITH VAPOR BARRIER

DELIVERY

- NEVER WAIT AGAIN
- FREE LOCAL DELIVERY
- PACKAGED/TAGGED FOR JOBSITE AREA

- **SAVE TIME & \$\$\$\$\$**
- ORDER AS NEEDED

APPLICATION:

AMIS 433 H2 PHENOLIC IS DESIGNED FOR USE ON AMBIENT, MEDIUM, AND LOW TEMPERATURE PIPING SYSTEMS. LOW TEMPERATURE APPLICATIONS INCLUDE COLD WATER, CHILLED WATER, BRINE SYSTEMS, DOWTHERM J SYSTEMS, AND OTHER REFRIGERANT SYSTEM APPLICATIONS. FOR INSTALLATION OVER CLEVIS HANGERS WHERE PIPE MOVEMENT IS ISOLATED OR ELIMINATED, AND WHEN PRE-INSULATED PIPE SUPPORTS AREN'T USED.

MATERIAL DATA:

TEMPERATURE RANGE	-290F TO +250F	
DENSITY	2.5pcf	ASTM D 1622
COMPRESSIVE STRENGTH	29psi for 2.5 pcf	ASTM D 1621
SURFACE BURNING	FLAME SPREAD 25	ASTM E 84
CHARACTERISTICS	SMOKE DEVELOPMENT 50	
THERMAL CONDUCTIVITY	2.5 pcf: Mn TEMP=75F 0.13 BTU-in/hr-SF-F	ASTM C 518
WATER VAPOR PERM.	117 PERM INCH	ASTM E 96
CLOSED CELL CONTENT	MINIMUM 90%	ASTM D 2856

MATERIAL DATA



1-800-859-7875

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Industrial Insulation Group, LLC

A Calorfin/Johnson Controls Joint Venture

PIPE & EQUIPMENT INSULATIONS

Sproule WR-1200® PERLITE PIPE & BLOCK INSULATION

DESCRIPTION

Sproule WR-1200® is a pre-formed, high temperature, non-wicking pipe and block insulation composed of expanded perlite uniformly reinforced with a high strength fiber for use on systems operating up to 1200°F (649°C). It is inorganic, non-combustible and meets or exceeds the physical property requirements of ASTM C610. Sproule WR-1200 is produced with a blue visual color coding dispersed throughout the product to assure it can be identified as asbestos-free. Integral to Sproule WR-1200 is **XOX**, a distinctive formula and process that inhibits corrosion to outside surfaces of pipe and equipment, especially stress corrosion cracking of austenitic stainless steel.

APPLICATIONS

Because of its compressive strength, low thermal conductivity and corrosion inhibiting properties, it is an excellent product for application on high temperature piping and equipment. In industrial processing and power generation facilities, Sproule WR-1200 is the preferred product for stainless steel piping, which is very susceptible to stress corrosion cracking at operating temperatures above 140°F (60°C). The **XOX** feature inhibits corrosion where moisture and chlorides may become trapped between insulation and stainless steel.

ADVANTAGES

Guards stainless steel against corrosion

No binders to burn out; no loss of insulation integrity

Resistant to mold growth

Pipe insulation sections shrink-wrapped with poly film for protection from abrasion during shipment

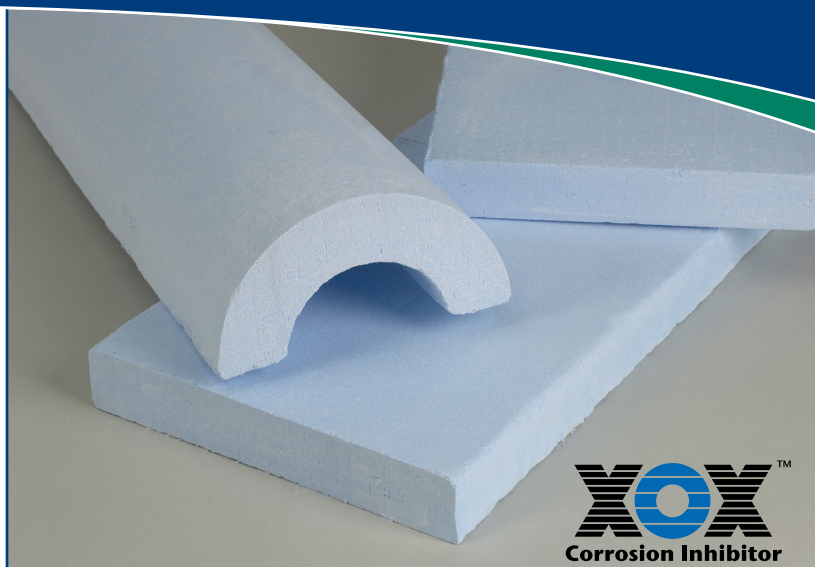
Block insulation manufactured with reinforcing scrim beneath the outside surface enhancing structural integrity

Available Forms and Sizes

Pipe Sizes

in.	mm
1/2 - 40	15-1000

See Sproule WR-1200 Packaging and Shipping Data (IIG-P-5) to determine form by I.D. pipe size. Double layer must be specified at time of order entry.



Sproule WR-1200®

INSULATION TYPE*	WIDTH		THICKNESS	
	in.	mm	in.	mm
Pipe**	—	—	1-4	25-102
Flat Block	6 or 12	152 or 305	1-5	25-127
Scored Block	12	305	1½-5	38-127
V-Groove Block	12	305	2-5	51-127

Notes:
 *All pipe and block insulation products are 36" (914 mm) in length.
 **Double layered pipe insulation is available for heat-traced line applications.

V-GROOVED BLOCK APPLICATION GUIDE

Minimum Diameter					
Insulation Thickness		Triple Scored		Single Scored	
in.	mm	in.	mm	in.	mm
1½	38	30	762	95	2413
2	51	40	1016	125	3175
2½	64	50	1270	155	3937
3	76	60	1524	190	4826
3½	89	70	1778	220	5588
4	102	-	-	250	6350

Sproule WR-1200®

PERLITE PIPE & BLOCK INSULATION

FIRE SAFETY

Surface Burning Characteristics. When tested in accordance with ASTM E 84, Sproule WR-1200 has flame spread/smoke developed ratings of 0/0.

Hot Surface Performance. Sproule WR-1200 passes ASTM C 411 to 1200°F (649°C).

SPECIFICATION COMPLIANCE

ASTM C 610

ASTM C 1338

ASTM C 795

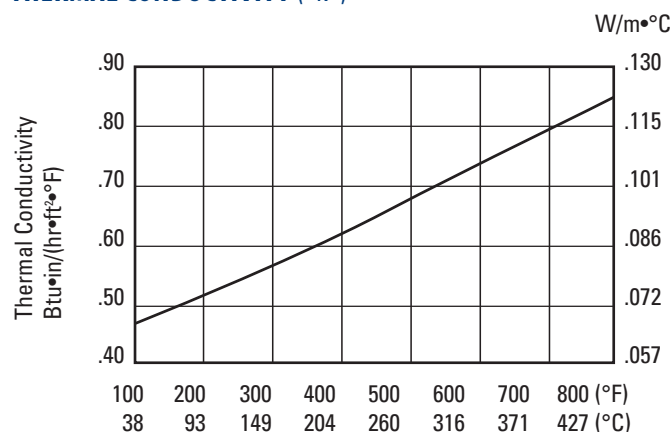
NRC Reg. Guide 1.36

Mercury Free

Food Grade Acceptable

Certification of Conformance available on request.

THERMAL CONDUCTIVITY ("k")*



Mean	°F	100	200	300	400	500	600	700	800
Temperature	°C	38	93	149	204	260	316	371	427
Btu·in/(hr·ft²·°F)		.47	.51	.56	.62	.68	.74	.79	.85
W/m·°C		.068	.074	.081	.089	.098	.107	.114	.123

*Sproule WR-1200 Block Insulation as tested in accordance with ASTM C 177, ASTM C 518.

MINIMUM PHYSICAL PROPERTY REQUIREMENTS OF ASTM C 610

Average Density	13.0 lbs. per cu. ft. (208.3 kgs./m³)
Flexural Strength	50-60 psi (345-414 kPa)
	ASTM C 203
Compressive Strength	80 psi (552 kPa) to Produce
	5% Compression
	ASTM C 165
Linear Shrinkage	Less than 2.0% After 24-Hour
	Soaking Period at 1200°F (649°C)
	ASTM C 356
Maximum Service Temperature	1200°F (649°C)
	ASTM C 411
Surface Burning Characteristics	Flame Spread - 0
	Smoke Developed - 0
	ASTM E 84
Acid Resistance	After 1 Week Exposure:
10% Sulfuric Acid	No Effect
10% Hydrochloric Acid	No Effect
Water Absorption	
By Volume-Avg.	0.4%
By Weight-Avg.	6.0%
	ASTM C 610
Corrosion Protection	
ASTM C 795	Passes
ASTM C 1617 Corrosiveness, Steel	Passes

GOVERNMENT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a state-ment of the 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.

Industrial Insulation Group, LLC is a Calsilite/Johns Manville joint venture. 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.



Industrial Insulation Group, LLC

A Calsilite/Johns Manville Joint Venture

2100 LINE STREET • BRUNSWICK, GA 31520

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.

**CUSTOMER SERVICE,
TECHNICAL & GENERAL INFORMATION**

(800) 866-3234



Industrial Insulation Group, LLC
A Johns Manville Company

PIPE & EQUIPMENT INSULATIONS

Thermo-12® Gold PIPE & BLOCK INSULATION

DESCRIPTION

Thermo-12 Gold is a pre-formed, high temperature, abuse-resistant pipe and block insulation with exceptional structural strength, composed of hydrous calcium silicate for use on systems operating up to 1200°F(650°C). It is inorganic, noncombustible, Asbestos Free and meets or exceeds the physical and thermal property requirements of ASTM C533, Type 1. Integral to Thermo-12 Gold is, **XOX** a distinctive formula and process that inhibits corrosion to outside surfaces of pipe and equipment.

ADVANTAGES

- **Excellent resistance to damage** enhancing the life of the system.
- **Inhibits corrosion on carbon steel** and stainless steel piping and equipment.
- **Consistent thermal performance to 1200°F(650°C).**
- **Noncombustible Insulation.**
- **Structural strength protects** against damage to lagging.
- **Asbestos, Mercury and Lead Free.**
- **No organic binders;** No loss of insulation integrity due to binder burn out.
- **Large selection** of sizes and forms.

APPLICATIONS

Thermo-12 Gold is the product of choice for high temperature pipe and equipment due to its high strength and durability, low thermal conductivity and corrosion inhibiting performance. Thermo-12 Gold is especially recommended for use in the petrochemical, power generation and process industries where piping and equipment operating up to 1200°F (650°C). The **XOX** corrosion inhibiting properties are not diminished by temperature cycling so the corrosion protection will continue for the life of the product. Thermo-12 Gold will not burn and may be used as a component in fire protection systems in the some applications. Please visit our website at www.iig-llc.com for specific application information.

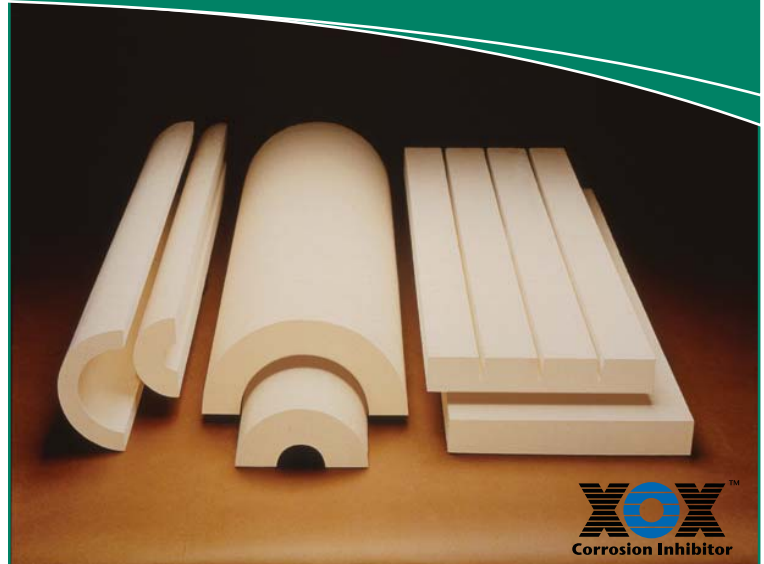
FIRE SAFETY

Surface Burning Characteristics. When tested in accordance with ASTM E84, NFPA 255, and UL 723, Thermo-12 Gold has flame spread/smoke developed ratings of 0/0.

Non Combustible. When tested in accordance with ASTM E136 as defined by NFPA 255 and NFPA 101.

ADDITIONAL INFORMATION AND MSDS

Please visit our website at www.iig-llc.com.



Thermo-12® Gold
Operating Temperature Limit: 1200°F (650°C)

AVAILABLE FORMS AND SIZES

Pipe Sizes		Thermo-12 Gold
in.	mm	
½-24	15-600	Pipe Insulation
20-37	500-925	Quad Segments
38-52	950-1300	Hex Pipe Covering (Ruston Plant Only)
30 minimum	750 minimum	Scored Block [12" (305 mm) wide] [18" (457 mm) wide (Mesa Plant Only)]
Flat Surfaces		Flat Block [6", 12" and 18" wide] (152 mm, 305 mm and 457 mm wide)

Thermo-12 Gold pipe insulation is 36" (914 mm) in length, and is available in thicknesses from 1" to 6" (25 mm to 150 mm) in ½" (15 mm) increments. Thick wall material is furnished in double layers.

Thermo-12 Gold flat block insulation is 12" (305 mm) wide and 36" (914 mm) in length, and is available in thicknesses from 1" to 4" (25 mm to 100 mm) in ½" (15 mm) increments. Non-standard widths of 18", 24" and 36" (457 mm, 610 mm and 914 mm) are available on a made-to-order basis. Inquire for price and availability.

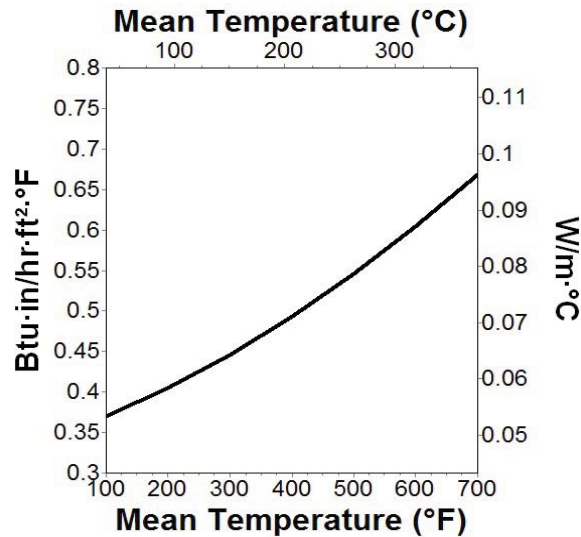
SCORED BLOCK APPLICATION GUIDE

Minimum Diameter			
Insulation Thickness		Triple Scored	
in.	mm	in.	mm
1½	38	30	762
2	51	40	1016
2½	64	50	1270
3	76	60	1524
3½	89	70	1778
4	102	80	2032

Thermo-12® Gold

PIPE & BLOCK INSULATION

THERMAL CONDUCTIVITY *



Mean Temperature	°F	100	200	300	400	500	600	700
	°C	38	93	149	204	260	316	371
Btu · in/(hr · ft² · °F)		.37	.41	.45	.49	.55	.60	.67
W/m · °C		.053	.058	.064	.071	.079	.087	.096

* Thermo-12 Gold Pipe & Block Insulation as tested in accordance with ASTM C177, ASTM C518 and ASTM C335.

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.

ISO 9000 CERTIFICATION

Thermo-12 Gold is designed, manufactured, and tested in our own facilities, which are certified and registered to stringent ISO 9000(ANSI/ASQ 90) series quality standards. This certification, along with regular independent third-party auditing for compliance, 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.



Industrial Insulation Group, LLC

A Johns Manville Company

2100 LINE STREET • BRUNSWICK, GA 31520

SPECIFICATION COMPLIANCE

ASTM C165 Compressive Strength	>100psi(690kPa) 5% compression
ASTM C203 Flexural Strength	>50psi(450kPa)
ASTM C302 Density (Dry) Average	>14pcf(230kg/m³)
ASTM C356 Linear Shrinkage	<2.0% after 24hr Soaking period at 1200°F(650°C)
ASTM C421 Abrasion Resistance Weight Loss by Tumbling	After the first 10min <20% After the second 10min <40%
ASTM C447 Maximum Service Temperature	1200°F(650°C)
ASTM C533, Type I Material Specification	Passes
ASTM C665 Corrosivity to Steel	Passes-Inhibits
ASTM C795/C871/C692 Corrosion	Passes-Inhibits
ASTM C1338 Fungi Resistant	Passes
ASTM C1617 Corrosion	Passes-Inhibits
ASTM E84 Surface Burning Characteristics	Flame Spread -0 Smoke Developed -0
ASTM E119 Building Fire Test	Passes
ASTM E136 Non Combustibility	Passes
BS 476 PART II	Passes
Can/ULC S-102 Surface Burning Characteristics	Flame Spread -0 Smoke Developed -0
City of New York MEA	436-88-M
ISO 8143 Material Specification	Passes
MIL-I-24244 Military Specification	Passes
MIL-I-2781F to 1200°F(650°C) [Pipe] Military Specification	Passes
MIL-I-2819F Class 2 to 1200°F(650°C) [Block] Military Specification	Passes
NRC Reg. Guide 1.36	Passes
NFPA 255 Surface Burning Characteristics	Flame Spread -0 Smoke Developed -0
UL 1709 Hydrocarbon Fire Test	Rated (See IIG document TB005)

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.

**CUSTOMER SERVICE,
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www.iig-llc.com

TRYMER™ 2000 XP

Polyisocyanurate Insulation

TRYMER™ 2000 XP insulation is polyurethane modified polyisocyanurate cellular plastic. The rigid insulation is supplied in the form of bunstock for fabrication into sheets, pipe shells, tank and vessel coverings, and other shapes for a variety of thermal insulation applications.

TRYMER 2000 XP insulation features improved dimensional stability over a wider range of temperatures than standard polyurethane insulation.

TRYMER insulation is not a known nutrient source for mold and mildew.

Applications

TRYMER 2000 XP insulation is suitable for applications that require a Flame Spread Index of 25 or less and a Smoke Developed Index of 450 or less when tested as per ASTM E84. These are typical requirements for pipe insulation located in non-plenum locations so TRYMER 2000 XP Insulation is particularly ideal for use as pipe insulation in the non-plenum areas of commercial buildings. *For pipe insulation located inside plenums of commercial buildings, ITW recommends the use of our Trymer Supercel Phenolic Insulation.* TRYMER 2000 XP can be used within the service temperature range of -297°F to 300°F (-183°C to 149°C). Typical applications for TRYMER 2000 XP insulation include:

- industrial pipe insulation, including elbows and fittings
- commercial chilled water insulation
- tank and vessel insulation
- core material for architectural and structural panels
- insulation for shipping containers, trucks or railcars
- core material for factory built panellized constructions
- flat or tapered board stock for roof insulation

ITW can provide general guidelines and recommendations for TRYMER™2000 XP insulation. For additional information, visit www.itwinsulation.com, call 1-800-231-1024 or contact your regional ITW representative.

SIZE

Height:	24" (61 cm)
Width:	48" (122 cm)
Length:	36" (91 cm)
	96" (244 cm)
	108" (274 cm)

Custom lengths are also available. Contact your regional ITW representative for details.

PHYSICAL PROPERTIES

TRYMER 2000 XP insulation exhibits the properties and characteristics indicated in Table 1 when tested as represented. Consultation with local code officials and design engineers/specifiers is recommended before application.

As with all cellular polymers, TRYMER 2000 XP insulation will degrade upon prolonged exposure to sunlight. A covering to block ultra-violet radiation must be used to help prevent degradation. Other coverings to protect the insulation from the elements may be required.

ENVIRONMENTAL DATA

TRYMER 2000 XP insulation is specifically formulated to provide excellent thermal insulation properties without the use of chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) blowing agents. In compliance with the Montreal Protocol and the Clean Air Act, TRYMER 2000 XP insulation is manufactured with hydrocarbon blowing agents, which have no ozone depletion potential.

SAFETY CONSIDERATIONS

TRYMER 2000 XP insulation requires care in handling. All persons working with this material must know and follow the proper handling procedures. The current Material Safety Data Sheet (MSDS) and General Handling Recommendations for TRYMER contain information on the safe handling, storage and use of this material. For copies of these documents, visit the literature library at www.itwinsulation.com, call 1-800-231-1024 or contact your regional ITW representative.

Installation

TRYMER 2000 XP insulation is specifically formulated for easy fabrication into many shapes, such as pipe coverings, valve and fitting covers, and others to meet specific design needs. Because of the critical technical design aspects in many applications, ITW recommends contacting qualified designers to specify the total system. For more specific instructions, contact a regional ITW representative or access the literature library at www.itwinsulation.com.

Availability

TRYMER 2000 XP insulation is distributed through ITW's extensive Authorized Fabricator Network. For more information, call: 1-800-231-1024.

Product Information

TRYMER™ 2000 XP complies with ASTM C591, Grade 2, Type IV

Table 1			
Physical Properties of TRYMER™ 2000 XP Polyisocyanurate Foam ^{1,2}			
Property and Test Method	Value	Property ¹ and Test Method ²	Value
Density, ASTM D1622, lb/ft ³ (kg/m ³)	2.05 (32.8)	Closed Cell Content, ASTM D6226, % min.	90
Compressive Strength, ASTM D1621, lb/in ² (kPa),		Water Absorption, ASTM C272, 24-hour immersion, % by volume	<0.7
Parallel to rise	25 (172)	Water Vapor Permeability, ASTM E96 perm-inch (ng/Pa*s*m)	4 (5.8)
Perpendicular to rise - width	24 (165)	Dimensional Stability ⁵ , ASTM D2126	
Perpendicular to rise - length	30 (207)	At -40° F (-40°C), 7 days	
Compressive Modulus, ASTM D1621, lb/in ² (kPa),		Length, % change	0.4
Parallel to rise	650 (4,485)	Volume, % change	0.6
Perpendicular to rise - width	475 (3,278)	At -10° F (-23°C), 7 days	
Perpendicular to rise - length	600 (4,414)	Length, % change	0.2
Shear Strength, ASTM C273, lb/in ² (kPa),		Volume, % change	0.2
Parallel and perpendicular, avg	15 (104)	At 158° F (70°C), 7 days	
Shear Modulus, ASTM C273, lb/in ² (kPa),		Length, % change	1.5
Parallel and perpendicular, avg	250 (1,725)	Volume, % change	3.0
Tensile Strength, ASTM D1623, lb/in ² (kPa),		At 158° F (70°C), 97% R.H. 7 days	
Parallel to rise - thickness	20 (138)	Length, % change	1.6
Flexural Modulus, ASTM C203, lb/in ² (kPa),		Volume, % change	3.4
Parallel to rise	720 (4,968)	At 300° F (149°C), 7 days	
Flexural Strength, ASTM C203, lb/in ² (kPa),		Length, % change	2.7
Parallel to rise	33 (228)	Volume, % change	4.5
k-Factor for comparison and product qualification ³ , ASTM C518, Btu-in/hr-ft ² ·°F (W/m°C) @ 75°F (24°C)	0.168 (0.024)	Service Temperature ⁶ , °F (°C)	-297 to +300 (-183 to +149)
R-Value per inch for comparison and product qualification ³ , ASTM C518, hr-ft ² ·°F/Btu (m ² ·°C/W) @ 75°F (24°C)	6.0 (1.06)	Surface Burning Characteristics ⁷ , ASTM E84,	
k-Factor for thickness calculations ⁴ , ASTM C518, Btu-in/hr-ft ² ·°F (W/m°C), Aged 180 days @ 75°F (24°C)	0.19 (0.027)	Flame Spread	≤25
R-Value per inch for thickness calculations ⁴ , ASTM C518, hr-ft ² ·°F/Btu (m ² ·°C/W) @ 75°F (24°C)	5.3 (0.93)	Smoke Developed	≤450
		Color	Tan

- (1) All properties are measured at 74° (23°C), unless otherwise indicated.
- (2) Unless otherwise indicated, data shown are typical values obtained from representative production samples. This data may be used as a guide for design purposes, but should not be construed as specifications. For property ranges and specifications, consult your ITW representative.
- (3) Trymer 2000 XP has third party test results showing a 180 day aged k-Factor of 0.168 Btu-in/hr-ft²·°F at 75°F mean temperature. This value demonstrates the excellent performance of the product and can be used for comparison to other materials and to qualify Trymer 2000 XP to specification requirements.
- (4) Thermal conductivity test results include no safety factor and are obtained in pristine lab conditions on samples with no joints and that have not been subjected to the vagaries of installation. For Trymer 2000XP, ITW recommends that a more conservative 180 days aged k-Factor curve represented by a value of 0.19 Btu-in/hr-ft²·°F at 75°F mean temperature be used for all system design and insulation thickness calculation purposes.
- (5) Frequent and severe thermal cycling can produce dimensional changes significantly greater than those stated here. Special design consideration must be made in systems that cycle frequently.
- (6) Above 300°F, discoloration and charring will occur, resulting in an increased k-factor in the discolored area.
- (7) This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

- **For Technical Information: 1-800-231-1024**
- **For Sales Information: 1-800-231-1024**
- ITW Insulation Systems
- 1370 East 40th Street, Building 7, Suite 1, Houston, TX 77022-4104
- www.itwinsulation.com

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COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call ITW at 1-800-231-1024 or contact your local building inspector.

ITW Insulation Systems

TRYMER™ 4000

Polyisocyanurate Insulation

TRYMER™
PIR insulation

TRYMER™ 4000 insulation is a polyurethane modified polyisocyanurate cellular material. The rigid insulation is supplied in the form of bunstock for fabrication into sheets, pipe shells, tank and vessel coverings, and other shapes for a variety of thermal insulation applications.

TRYMER™ 4000 insulation features improved dimensional stability over a wider range of temperatures than standard polyurethane insulation.

TRYMER™ insulation is not a known nutrient source for mold and mildew.

Applications

TRYMER™ 4000 insulation is used extensively in industrial and commercial applications with high strength requirements, within the service temperature range of -297°F to +300°F (-183°C to +149°C).

Typical applications for TRYMER™ 4000 insulation include:

- industrial pipe insulation, including elbows and fittings
- pipe hangers, saddles and supports
- tank and vessel insulation
- core material for architectural and structural panels
- core material for factory-built panellized constructions

ITW can provide general guidelines and recommendations for TRYMER™ 4000 insulation. For additional information, visit www.itwinsulation.com, call 1-800-231-1024 or contact your local ITW representative.

SIZE

Height:	16" (41 cm)
Width:	48" (122 cm)
Length:	36" (91 cm)
	96" (244 cm)

Custom lengths are also available. Contact your local ITW representative for details.

PHYSICAL PROPERTIES

TRYMER™ 4000 insulation exhibits the properties and characteristics indicated in Table 1 when tested as represented.

Consultation with local code officials and design engineers/specifiers is recommended before application.

As with all cellular polymers, TRYMER™ 4000 insulation will degrade upon prolonged exposure to sunlight. A covering to block ultraviolet radiation must be used to prevent degradation. Other coverings to protect the insulation from the elements may be required.

ENVIRONMENTAL DATA

TRYMER™ 4000 insulation is specifically formulated to provide excellent thermal insulation properties without the use of chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) blowing agents. In compliance with the Montreal Protocol and the Clean Air Act, TRYMER™ 4000 insulation is manufactured with hydrocarbon blowing agents, which have no ozone depletion potential.

SAFETY CONSIDERATIONS

TRYMER™ 4000 insulation requires care in handling. All persons working with this material must know and follow the proper

handling procedures. The current Material Safety Data Sheet (MSDS) and General Handling Recommendations for TRYMER™ contains information on the safe handling, storage and use of this material. For copies of these documents, visit the literature library at www.itwinsulation.com, call 1-800-231-1024 or contact your local ITW representative.

Installation

TRYMER™ 4000 insulation is easy to fabricate into various sizes and shapes to meet specific design needs.

Because of the critical technical design aspects in many applications, ITW recommends contacting qualified designers to specify the total system. For more specific instructions, contact a local ITW representative or access the literature library at www.itwinsulation.com.

Availability

TRYMER™ 4000 insulation is distributed through ITW's extensive Authorized Fabricator Network. For more information, call: 1-800-231-1024

Technical Services

ITW can provide technical information to help address questions when using TRYMER™ 4000 insulation. Technical personnel are available at: 1-800-231-1024

TRYMER 4000 Polyisocyanurate Insulation

Product Information

TRYMER™ 4000 complies with ASTM C591, Grade 2, Type V

TABLE 1

Physical Properties of TRYMER™ 4000 Polyisocyanurate Insulation			
Property ⁽¹⁾ and Test Method ⁽²⁾	Value	Property ⁽¹⁾ and Test Method ⁽²⁾	Value
Density ⁽³⁾ , ASTM D1622, lb/ft ³ (kg/m ³)	4 (64)	Water Absorption, ASTM C272, 24-hr immersion, % by volume	<0.7
Compressive Strength ⁽³⁾ , ASTM D1621, lb/in ² (kPa)		Water Vapor Permeability, ASTM E96, perm-inch (ng/Pa•s•m)	2.9 (4.4)
Parallel to rise – thickness	95 (655)	Dimensional Stability ⁽⁵⁾ , ASTM D2126	
Perpendicular to rise – width	80 (550)	At -40°F (-40°C), 7 days	
Perpendicular to rise – length	100 (690)	Length, % change	-0.4
Compressive Modulus, ASTM D1621, lb/in ² (kPa)		Volume, % change	-0.9
Parallel to rise – thickness	2,100 (14,470)	At -10°F (-23°C), 7 days	
Perpendicular to rise – width	1,800 (12,400)	Length, % change	-1.6
Perpendicular to rise – length	2,600 (17,900)	Volume, % change	-2.0
Shear Strength, ASTM C273, lb/in ² (kPa)		At 158°F (70°C), 7 days	
Parallel and perpendicular, avg	42 (290)	Length, % change	1.0
Shear Modulus, ASTM C273, lb/in ² (kPa)		Volume, % change	2.0
Parallel and perpendicular, avg	650 (4,480)	At 158°F (70°C)/97% R.H., 7 days	
Tensile Strength, ASTM D1623, lb/in ² (kPa)		Length, % change	-1.5
Parallel to rise – thickness	60 (413)	Volume, % change	-1.5
Flexural Strength, ASTM C203, lb/in ² (kPa)		At 300°F (149°C), 7 days	
Parallel to rise	150 (1,030)	Length, % change	-1.3
Flexural Modulus, ASTM C203, lb/in ² (kPa)		Volume, % change	-1.1
Parallel to rise	3,850 (26,540)	Service Temperature ⁽⁶⁾ , °F (°C)	-297 to +300 (-183 to +149)
k-factor, ASTM C518, Btu•in/hr•ft ² •°F (W/m•°C)		Surface Burning Characteristics ⁽⁷⁾ , ASTM E84	
Aged 180 days @ 75°F (24°C)	0.19 (0.027)	Flame Spread/Smoke Developed (FS/SD)	25/450 up to 6" (15 cm) thickness
R-Value ⁽⁴⁾ /in., ASTM C518, hr•ft ² •°F/Btu (m ² •°C/W)		Color	Tan
Aged 180 days @ 75°F (24°C)	5.3 (0.93)		
Closed Cell Content, ASTM D2856, %, min.	95		

- (1) All properties are measured at 74° (23°C), unless otherwise indicated.
- (2) Unless otherwise indicated, data shown are typical values obtained from representative production samples. This data may be used as a guide for design purposes, but should not be construed as specifications. For property ranges and specifications, consult your ITW representative.
- (3) Average value through insulation cross section.
- (4) R means resistance to heat flow. The higher the R-value, the greater the insulating power.
- (5) Frequent and severe thermal cycling can produce dimensional changes significantly greater than those stated here. Special design consideration must be made in systems that cycle frequently.
- (6) Above 300°F (149°C), discoloration and charring will occur, resulting in an increased k-factor in the discolored area.
- (7) This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

- For Technical Information: 1-800-231-1024
- For Sales Information: 1-800-231-1024
- ITW Insulation Systems
- 1370 East 40th Street, Building 7, Suite 1, Houston, TX 77022-4104
- www.itwinsulation.com

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COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call ITW at 1-800-231-1024 or contact your local building inspector.

Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including ITW can give assurance that mold will not develop in any specific system.

ITW Insulation Systems

*Trademark of ITW Insulation Systems

Form No. T40001-0209

TRYMER™ 6000 Polyisocyanurate Insulation

TRYMER™
PIR insulation

TRYMER™ 6000 insulation is a polyurethane modified polyisocyanurate cellular plastic. The rigid insulation is supplied in the form of bunstock for fabrication into sheets, pipe shells, tank and vessel coverings, and other shapes for a variety of thermal insulation applications.

TRYMER™ 6000 insulation features improved dimensional stability over a wider range of temperatures than standard polyurethane insulation.

TRYMER™ insulation is not a known nutrient source for mold and mildew.

Applications

TRYMER™ 6000 polyisocyanurate insulation is used extensively in industrial and commercial applications with high density/strength requirements, within the service temperature range of -297°F to +300°F (-183°C to +149°C).

Typical applications for TRYMER™ 6000 insulation include:

- industrial pipe insulation, including elbows and fittings
- pipe hangers, saddles and supports
- tank and vessel insulation
- core material for architectural and structural panels
- core material for factory-built panellized constructions

ITW can provide general guidelines and recommendations for TRYMER™ 6000 insulation. For additional information, visit www.itwinsulation.com, call 1-800-231-1024 or contact your local ITW representative.

SIZE

Height:	12" (30.5 cm)
Width:	48" (122 cm)
Length:	36" (91 cm) 96" (244 cm)

Custom lengths are also available. Contact your local ITW representative for details.

PHYSICAL PROPERTIES

TRYMER™ 6000 insulation exhibits the properties and characteristics indicated in Table 1 when tested as represented.

Consultation with local code officials and design engineers/specifiers is recommended before application.

As with all cellular polymers, TRYMER™ 6000 insulation will degrade upon prolonged exposure to sunlight. A covering to block ultraviolet radiation must be used to prevent degradation. Other coverings to protect the insulation from the elements may be required.

ENVIRONMENTAL DATA

TRYMER™ 6000 insulation is specifically formulated to provide excellent thermal insulation properties without the use of chlorofluorocarbon (CFC) or hydrochlorofluorocarbon (HCFC) blowing agents. In compliance with the Montreal Protocol and the Clean Air Act, TRYMER™ 6000 insulation is manufactured with hydrocarbon blowing agents, which have no ozone depletion potential.

SAFETY CONSIDERATIONS

TRYMER™ 6000 insulation requires care in handling. All persons working with this material must know and follow the proper

handling procedures. The current Material Safety Data Sheet (MSDS) and General Handling Recommendations for TRYMER™ contains information on the safe handling, storage and use of this material. For copies of these documents, visit the literature library at www.itwinsulation.com, call 1-800-231-1024 or contact your local ITW representative.

Installation

TRYMER™ 6000 insulation is specifically formulated for easy fabrication into many shapes, such as pipe coverings, valve and fitting covers, and others to meet specific design needs.

Because of the critical technical design aspects in many applications, ITW recommends contacting qualified designers to specify the total system. For more specific instructions, contact a local ITW representative or access the literature library at www.itwinsulation.com.

Availability

TRYMER™ 6000 insulation is distributed through ITW's extensive Authorized Fabricator Network. For more information, call: 1-800-231-1024

Technical Services

ITW can provide technical information to help address questions when using TRYMER™ 6000 insulation. Technical personnel are available at: 1-800-231-1024

Product Information

TRYMER™ 6000 complies with ASTM C591, Grade 2, Type VI

TABLE 1

Physical Properties of TRYMER™ 6000 Polyisocyanurate Insulation			
Property ⁽¹⁾ and Test Method ⁽²⁾	Value	Property ⁽¹⁾ and Test Method ⁽²⁾	Value
Density ⁽³⁾ , ASTM D1622, lb/ft ³ (kg/m ³)	6 (96)	Water Absorption, ASTM C272, 24-hr immersion, % by volume	<0.7
Compressive Strength ⁽³⁾ , ASTM D1621, lb/in ² (kPa)		Water Vapor Permeability, ASTM E96, perm-inch (ng/Pa•s•m)	1.1 (1.6)
Parallel to rise – thickness	140 (970)	Dimensional Stability ^{(3), (5)} , ASTM D2126	
Perpendicular to rise – width	130 (900)	At -40°F (-40°C), 7 days	
Perpendicular to rise – length	130 (900)	Length, % change	-0.3
Compressive Modulus, ASTM D1621, lb/in ² (kPa)		Volume, % change	-0.1
Parallel to rise – thickness	3,100 (21,400)	At -10°F (-23°C), 7 days	
Perpendicular to rise – width	2,800 (19,300)	Length, % change	-0.2
Perpendicular to rise – length	2,800 (19,300)	Volume, % change	-0.7
Shear Strength, ASTM C273, lb/in ² (kPa)		At 158°F (70°C), 7 days	
Parallel and perpendicular, avg	80 (550)	Length, % change	1.0
Shear Modulus, ASTM C273, lb/in ² (kPa)		Volume, % change	0.5
Parallel and perpendicular, avg	800 (5,500)	At 158°F (70°C)/97% R.H., 7 days	
Tensile Strength, ASTM D1623, lb/in ² (kPa)		Length, % change	0.4
Parallel to rise – thickness	95 (654)	Volume, % change	0.7
Flexural Strength, ASTM C203, lb/in ² (kPa)		At 300°F (149°C), 7 days	
Parallel to rise	160 (1,100)	Length, % change	-0.4
Flexural Modulus, ASTM C203, lb/in ² (kPa)		Volume, % change	-1.0
Parallel to rise	5,800 (40,000)	Service Temperature ⁽⁶⁾ , °F (°C)	-297 to +300 (-183 to +149)
k-factor, ASTM C518, Btu•in/hr•ft ² •°F (W/m•°C)		Surface Burning Characteristics ⁽⁷⁾ , ASTM E84	
Aged 180 days @ 75°F (24°C)	0.200 (0.029)	Flame Spread/Smoke Developed (FS/SD)	25/450 up to 6" (15 cm) thickness
R-Value ⁽⁴⁾ /in., ASTM C518, hr•ft ² •°F/Btu (m ² •°C/W)		Color	Tan
Aged 180 days @ 75°F (24°C)	5.0 (0.88)		
Closed Cell Content, ASTM D2856, %, min.	95		

- (1) All properties are measured at 74° (23°C), unless otherwise indicated.
- (2) Unless otherwise indicated, data shown are typical values obtained from representative production samples. This data may be used as a guide for design purposes, but should not be construed as specifications. For property ranges and specifications, consult your ITW representative.
- (3) Average value through insulation cross section.
- (4) R means resistance to heat flow. The higher the R-value, the greater the insulating power.
- (5) Frequent and severe thermal cycling can produce dimensional changes significantly greater than those stated here. Special design consideration must be made in systems that cycle frequently.
- (6) Above 300°F (149°C), discoloration and charring will occur, resulting in an increased k-factor in the discolored area.
- (7) This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.

- **For Technical Information: 1-800-231-1024**
- **For Sales Information: 1-800-231-1024**
- ITW Insulation Systems
- 1370 East 40th Street, Building 7, Suite 1, Houston, TX 77022-4104
- **www.itwinsulation.com**

NOTICE: No freedom from any patent owned by ITW or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. ITW Insulation Systems assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call ITW at 1-800-231-1024 or contact your local building inspector.

Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including ITW can give assurance that mold will not develop in any specific system.

ITW Insulation Systems

*Trademark of ITW Insulation Systems

Form No. T60001-0209



RIGID PHENOLIC INSULATION

PROPERTIES	STANDARD	UNITS
COLOR		Gray
NOMINAL DENSITY	ASTM D-1622	2.5 lb/ft ³
THERMAL CONDUCTIVITY	ASTM C-518	0.13 Btu-in./hr-ft ² -°F@ 75°F
TEMPERATURE LIMITS		-290°F to +250°F
SPECIFIC HEAT		0.45 Btu/lb.°F
COMPREHENSIVE STRENGTH	ASTM D-1621	
- Parallel to rise - Perpendicular to rise		29 lb/in ² 17.5 lb/in ²
TENSILE STRENGTH	ASTM D-1623	
- Parallel to rise - Perpendicular to rise		35/in ² 26 lb/in ²
SHEAR STRENGTH	ASTM C-273	
- Perpendicular to rise		18 lb/in ²
THERMAL AND HUMID AGING	ASTM D-2126-87	
	-110°F for 7 days -156°F for 7 days and 100% RH +267°F for 7 days	1" dim. 0.40 4" dim. 0.10 1" dim. 1.20 4" dim. 1.00 1" dim. 2.60 4" dim. 1.00
CLOSED CELL CONTENT	ASTM D-2856	Minimum 90%
WATER VAPOR PERMEABILITY	ASTM E-96	0.117 perm inch
WATER ABSORPTION	ASTM C-209 ASTM D-2842	0.5% by volume 0.10 lb/ft ²
WEIGHT RETENTION	ASTM D3014-74	85%
SURFACE BURNING CHARACTERISTICS ASTM E-84 25/50 Flame/Smoke Test Results		
	Flame Spread Index	Smoke Developed Index
1 Inch Thick – insulation only	10	20
3 Inch Thick – insulation only	10	15
1 Inch Thick – insulation faced with ASJ	0	10
3 Inch Thick – insulation faced with ASJ	0	10
<p>Insul-phen meets the requirements of ASTM C1126-98 Type II and III grade 1 standard specification for faced or unfaced rigid cellular Phenolic thermal insulation</p> <p>Other Information This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Resolco International BV. The data on this sheet related only to the specific material designated herein. Resolco International BV assumes no legal responsibility for use or reliance upon this data. For information regarding specific applications of the product please contact Resolco International BV.</p>		



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 e mail: info@resolco.com

PHEN-OMENAL

(March 2005)



Heavy Density HCFC Free Rigid Phenolic Insulation

STANDARD		UNITS	3.75	5.0	7.5	10
DENSITY*	ASTM D 1622	lb/ft³	3.7	5.5	7.5	10
K FACTOR*	ASTM C 518	Btu.in./ft².°F	0.16	0.21	0.23	0.26
TEMPERATURE LIMIT		°F	-290 °F to + 250 °F	-290 °F to + 250 °F	-290 °F to + 250 °F	-290 °F to + 250 °F
COMPRESSIVE STRENGTH	ASTM D 1621	psi				
- Parallel to rise*			58	90	150	290
- Perpendicular to rise*			43	70	110	210
TENSILE STRENGTH	ASTM D 1623	psi				
- Parallel to rise*			54	85	130	160
- Perpendicular to rise*			41	65	100	130
CLOSED CELL CONTENT	ASTM D 2856	%	>92	>92	>92	>92
WATER ABSORPTION	ASTM C 209	% by volume	.5%	.5%	.5%	.5%
FIRE TEST CLASSIFICATIONS	Meets the requirements of ASTM E84 25/50 flame and smoke - up to 3 inches thick					
*all properties can vary by +/- 5%						
OTHER DENSITIES ARE AVAILABLE ON REQUEST PLEASE CONTACT OUR TECHNICAL DEPARTMENT						
Insul-phen meets the requirements of ASTM C1126 Type 11 and 111 grade 1 standard specification for faced or unfaced rigid cellular phenolic thermal insulation.						
Other information						
This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Resolco Inc. The data on this sheet related only to the specific material designated herein. Resolco Inc. assumes no legal responsibility for use or reliance upon this data. For information regarding specific applications of the product please contact Resolco Inc.						

(August 2009)



TRYMER™ Green

PHENOLIC INSULATION

UNITS	STANDARD	PROPERTIES
COLOR		Green
NOMINAL DENSITY	ASTM D1622	2.5 lb/ ft ³
THERMAL CONDUCTIVITY	ASTM C518	0.15 Btu·in./hr·ft ² ·°F@75°F
TEMPERATURE LIMITS		-290°F to +250°F
SPECIFIC HEAT		0.45 Btu/lb-°F
COMPRESSIVE STRENGTH	ASTM D1621	
-Parallel to rise, min		29 lb/in ²
-Perpendicular to rise, min		17.5 lb/in ²
TENSILE STRENGTH	ASTM D1623	
-Parallel to rise, min		35 lb/in ²
-Perpendicular to rise, min		26 lb/in ²
SHEAR STRENGTH	ASTM C273	
-Perpendicular to rise, min		18 lb/in ²
THERMAL AND HUMID AGING	ASTM D2126-87	
	-110°F for 7 days	1" dim. 0.4% 4" dim. 0.1%
	+158°F and 97% RH for 7 days	1" dim. 1.2% 4" dim. 1.0%
	+257°F for 7 days	1" dim. 2.6% 4" dim. 1.0%
CLOSED CELL CONTENT	ASTM D2856	minimum 92%
WATER VAPOR PERMEABILITY	ASTM E96	0.9 perm-inch
WATER ABSORPTION	ASTM C209 ASTM D2842	0.5% by volume 0.10 lb/ft ²
SURFACE BURNING CHARACTERISTICS, ASTM E84		
	Flame Spread Index	Smoke Developed Index
1 Inch thick -insulation only	≤25	≤50
3 Inch thick -insulation only	≤25	≤50
1 Inch thick -insulation faced with Saran	≤25	≤50
3 Inch thick -insulation faced with Saran	≤25	≤50
TRYMER™ Green meets the requirements of ASTM C1126 Type II and III grade 1 standard specification for faced or unfaced rigid cellular phenolic thermal insulation Other information This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Resolco, Inc. and ITW Insulation Systems. The data on this sheet related only to the specific material designated herein. Resolco, Inc. and ITW Insulation Systems assume no legal responsibility for use or reliance upon this data. For information regarding specific applications of the product please contact ITW Insulation Systems.		

- **For Technical Information: 1-800-231-1024**
- **For Sales Information: 1-800-231-1024**
- ITW Insulation Systems
- 1370 East 40th Street, Building 7, Suite 1,
Houston, TX 77022-4104
- www.itwinsulation.com

ZERO-PERM® VAPOR BARRIER MEMBRANE



Zero-Perm® vapor barrier membrane from *Polyguard Products* is an absolute "zero perm" barrier that provides maximum protection for all types of insulations used in below ambient, sub-freezing and cryogenic applications on duct, pipe, or vessel systems.



Uses

Zero-Perm® vapor barrier is used on cold systems either between layers of insulation on sub-freezing projects like LNG piping, or as the outer vapor-barrier jacket on ammonia, brine or glycol systems under mechanical jacketing, either metal or PVC. *Zero-Perm* can also be used on chilled water systems

- Bright white finish similar to traditional ASJ, ASJ+ and PVDC jacketing
- Meets ASTM E84 25/50 Smoke and Flame requirements.
- Puncture and tear resistant
- Zero permeability
- Paper-free
- Mold resistant

replacing ASJ and PVDC jacketing either left exposed or under a protective metal or PVC jacket.

Installation

Zero-Perm is typically factory installed by a fabricator but can be installed in the field. Two types of *Zero-Perm* tapes are available to complete the installation in the field. Both use a high quality, acrylic adhesive with excellent cold weather performance. *Zero-Perm A* has a kraft release liner and is typically available in 2" and 3" width rolls for sealing longitudinal and circumferential laps. *Zero-Perm Self-Wound* has no liner, is used on valves and fittings and comes in 1", 2" and 3" widths. See separate data sheet for *Zero-Perm* tapes.

Packaging

- *Zero-Perm Vapor Barrier* (rolls) - 23.5" x 500'; 35.5" x 500'; 35.5" x 1000'
- *Zero-Perm A* (acrylic adhesive with liner) (rolls)- 2", 3", 23.5", 35.5" x 150'
- *Zero-Perm Self-wound Tape* (acrylic adhesive) (rolls)- 1", 2", 3" x 400'

Description

Zero-Perm is a 3-ply composite membrane consisting of a white 1.5 mil polymer film, 1.0 mil aluminum foil, and one 0.5 mil clear polymer film. The foil provides the zero permeance in the composite while the polypropylene/polyester layers protect the foil and provide the white finish, toughness and tear resistance. *ZeroPerm* is reversible, the white polypropylene side of can be left exposed when no protective jacket is required and offers an appearance similar to traditional and next generation ASJ, PVC and PVDC polymer jacketing. The polyester side presents a smooth silver foil finish.

P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

This information is based on our best knowledge, but
POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

Zero-Perm® Technical Properties and Testing

Membrane Property	Test Method	Results
Total Product Thickness	Micrometer	3.0 Mils(38/25/12mic)Film Only 3.4 Mils(Total)
Water Vapor Transmission(grains/hr-ft ²)	ASTM E96-Procedure A	0.00
Permeance	ASTM E96	0.00 Perms
Burst Strength	ASTM D 774	100 psi
Tensile Strength	ASTM C1136	30 lb/in(XD) 25 lb/in(MD)
Mold and Mildew Resistance	ASTM C-1338	No Growth
High Service Temperature Limit	4 Hour Oven exposure	+240°F
Low Service Temperature Limit	ASTM D1790	-40°F
Humidity Resistance	ASTM C1258	Pass
Dimensional Stability	ASTM D1204@150°F	<0.25% change
Weight Per Area	Scale/Balance	24 lbs/1000 sq.ft.
Flame/Smoke	ASTM E-84	Meets 25/50

X:/Lit/Mechanical/2011/ZeroPerm PP.doc R.4-11-12



FibaClad FR M1 is a new type of non metallic cladding system. Based upon the FibaRoll resin system, FibaClad gives the same great properties as FibaRoll but in a pre-formed shape. With the ability to make long radius and short radius 90's as well as the standard tees, FibaClad is ideal for those areas where it is difficult to get UV lights or natural sun light that is typically needed to cure FibaRoll. It is also ideal in areas of plants where you have high areas of wash downs. FibaClad is easily installed with the use of the exclusive FibaGel or FibaBond adhesive systems. This still gives the great sealed overlaps that are extremely strong and water tight. This allows for greater assurance against corrosion-under-insulation (CUI).

FEATURES

- Comes in 2 ft wide or 3.2 ft wide
- Diameters from 3" up to 36"
- Thicknesses from 1-2 mm
- Long Radius and Short Radius Elbows
- Standard colors are Gray or White (but specific colors can be requested if volume is high enough)
- Easily installed indoor or outdoor
- Can be installed in temperatures from -15 to 120 F
- Meets ASTM E-84 25/50 Smoke and Flame requirement

BENEFITS

- Reduces CUI risk
- Easily handled
- Won't dimple like metal
- More resistant to foot traffic than metal
- Better chemical resistance
- Ideal for hot and cold systems
- Can be used with all types of insulation



FTI-US
119 East Main Street
Suite A
Independence VA, 24348
276-773-2902



FibaRoll™ FibaClad™ FibaShield™

Physical Properties

Typical Physical Properties	Units	Value	Method
Tensile Strength	Ksi	10.2	ASTM D3039
Tensile Elongation at Break	%	1.25	ASTM D3039
Flexural Strength	Ksi	20.7	ASTM D790-03
Flexural Elongation at Break	%	3.4	ASTM D790-03
Compressive Strength	Ksi	20	ASTM D695
Compressive Modulus	Ksi	250	ASTM D695
Impact Resistance (Izod)	ft-lbs/in	13.3	ASTM D256-06
Barcol Hardness	Barcol	71	ASTM D2583
Water Vapour Permeability	g/(m ² .h.mmHg)	0.012	ASTM E96:2000
Max Service/Operating Temp	Deg °F	250	
Heat Distortion Temp	Deg °F	>460	ASTM D648
Flame Spread ASTM E-84	index	15	ASTM E84
Smoke Developed ASTM E-84	index	50	ASTM E84
NFP 92-501 Epiradiateur Test	index	M1	NFP 92-501

1 Ksi = 1000 pounds per square inch (psi)



FTI-US
119 East Main Street
Suite A
Independence VA, 24348
276-773-2902



FibaRoll™ FibaClad™ FibaShield™

SPECIFICATIONS



1-800-859-7875

WWW.AMERICANINSULATION.COM

PRE-INSULATED PIPE SUPPORT SPECIFICATION GUIDE

1. Insulated pipe supports shall be used on all insulated horizontal pipes at each point the pipe travels over or through a place of support.
2. The wall thickness of the pre-insulated pipe support will be the same thickness as the adjoining insulation.
3. The type of pre-insulated pipe supports to be used is dependent on the type and temperature of the piping system in place. Any system below 45 degrees Fahrenheit will use either an AMIS 300 or AMIS 400 pipe support or equivalent.

- * Cold/Chilled Water- AMIS 200 with vapor barrier OR
AMIS 300 with vapor barrier OR
AMIS 400 with vapor barrier
- * Hot Water S/R- AMIS 200
- * Steam & Cond.- AMIS 200
- * Rain Conductor- AMIS 200 (may use vapor barrier)

4. The style of pre-insulated pipe support shall also be determined by the type of hanger being used for the piping system in question. All systems shall have a support consisting of 360 degrees of insulation and a 360 degree galvanized steel shield.

Piping systems using roller hangers shall use an AMIS LH style support (with a structural insert when required) with a load-handler plate welded to the bottom half of the pipe support.

For a list of the style of pre-insulated pipe supports to use on a given piping system, refer to either the American Mechanical pipe support catalog or contact a customer service representative at (800) 859-7875.

5. Pre-insulated pipe supports shall be installed per manufacturer's recommendations.

AMIS SERIES PRE-INSULATED PIPE SUPPORT
DIMENSIONAL DATA
STANDARD INSULATION LENGTHS

NOMINAL PIPE OR TUBING	INSULATION THICKNESS					
	1/2"	1"	1-1/2"	2"	2-1/2"	3"
1/2"	6"	6"	6"	6"	9"	9"
3/4"	6"	6"	6"	6"	9"	9"
1"	6"	6"	6"	6"	9"	9"
1-1/4"	6"	6"	6"	6"	9"	9"
1-1/2"	6"	6"	6"	6"	9"	9"
2"	6"	6"	6"	6"	9"	9"
2-1/2"	*	6"	6"	6"	9"	9"
3"	*	6"	6"	6"	9"	9"
4"	*	6"	6"	9"	9"	9"
5"	*	6"	6"	9"	9"	9"
6"	*	9"	9"	9"	9"	9"
8"	*	9"	9"	9"	12"	12"
10"	*	9"	12"	12"	12"	12"
12"	*	9"	12"	12"	12"	12"

*NOTE-- Standard shield sizes for pipe supports are 4" for 6" insulation, 6" for 9" insulation, and 9" for 12" insulation (i.e. an AMIS 200 4 X 1 would be 6" of insulation with a 4" shield).

INSTALLATION



1-800-859-7875

WWW.AMERICANINSULATION.COM

AMIS Standard Pipe Support

Installation Instructions

1. Separate the pre-assembled AMIS pipe support so that you now have two halves of 180 degree insulation cradled inside of 180 degrees of galvanized steel shield.
2. Take one half of the AMIS support (180 degrees of insulation inside of 180 degrees of shield) and place it on the bottom half of the pipe being supported. In the case of AMIS supports with load-handler plates and/or structural inserts, put this half on the bottom portion of the pipe.
3. For all cold system AMIS pipe supports with a factory applied vapor-retarder mastic, a bead of approved caulk must be field applied to the longitudinal joints to provide a complete vapor barrier.
4. Take the remaining half of the AMIS support and "snap" it on the top half of the pipe being supported directly over the bottom half of the AMIS support already in place.
5. Upon installation of the AMIS support, make sure the shield is centered on the support insulation, and that the AMIS support is centered over the hanger, roller, or beam. If the AMIS support has a load-handler plate, make sure this plate is centered over the roller support.

TABLE I- SELECTION CHART

MAXIMUM RECOMMENDED PIPE HANGER SUPPORT SPACING- FEET FOR **AMIS** PIPE SUPPORT SYSTEMS

**Water-filled Metallic Pipe Supported from Below
by Roller Hanger or Flat Surface.*

PIPE SIZE	AMIS 100	AMIS 100 DB	AMIS 100 LH	AMIS 100 LHI
1/2"	15	16	*	*
3/4"	15	16	*	*
1"	13	15	*	*
1-1/2"	15	17	*	*
2"	15	16	*	*
2-1/2"	15	16	16	25
3"	15	16	16	25
3-1/2"	14	13	13	25
4"	13	14	14	19
5"	12	13	13	17
6"	11	12	12	26
8"	10	11	11	21
10"	9	9	9	25
12"	8	8	8	25

The above support selection chart was created by taking the maximum load ratings for Perlitel and comparing them with **standard** hanger spacing. Please note that the above chart is making recommendations only. Specific situations may exist that could merit the creation of new configurations of AMIS pipe supports. If the Table II conflicts with your application, please phone American Mechanical at **(800) 859-7875**. Because Table II is for recommendations, certain applications may have higher maximum load rating than stated above.

Application: 8" diameter schedule 40 pipe
18' support spacing

Solution: In Table II, find the pipe diameter (in this case, 8"), and move across the chart until you find the model with a hanger spacing that exceeds the given support spacing (in this case, 18').

AMIS 100 LHI will be the desired support for this application because it is capable of handling 21' spacing. Please review the specification sheets to determine which support to use given jobsite and system conditions.

TABLE II- SELECTION CHART

MAXIMUM RECOMMENDED PIPE HANGER SUPPORT SPACING- FEET FOR **AMIS** PIPE SUPPORT SYSTEMS

PIPE SIZE	AMIS 200 OR AMIS 300	AMIS 200 DB OR AMIS 300 DB	AMIS 200 LH OR AMIS 300 LH	AMIS 200 LHI OR AMIS 300 LHI
1/2"	15	16	*	*
3/4"	15	16	*	*
1"	13	15	*	*
1-1/2"	15	18	*	*
2"	15	18	*	*
2-1/2"	15	16	20	25
3"	15	17	21	25
3-1/2"	16	18	21	25
4"	13	14	17	19
5"	12	14	16	17
6"	12	15	20	26
8"	12	14	17	21
10"	10	10	13	25
12"	9	9	15	25
14"	8	9	15	25
16"	8	8	14	25
18"	*	*	14	22
20"	*	*	14	20
24"	*	*	11	15
30"	*	*	10	12

The above support selection chart was created by taking the maximum load ratings for both Perlite and CalSil and comparing them with **standard** hanger spacing. Please note that the above chart is making recommendations only. Specific situations may exist that could merit the creation of new configurations of AMIS pipe supports. If the Table I conflicts with your application, please phone American Mechanical at **(800) 859-7875**. Because Table I is for recommendations, certain applications may have higher maximum load rating than stated above.

Application: 8" diameter schedule 40 pipe
18' support spacing

Solution: In Table I, find the pipe diameter (in this case, 8"), and move across the chart until you find the model with a hanger spacing that exceeds the given support spacing (in this case, 18').

Either model AMIS 200 LHI or AMIS 300 LHI will be the desired support for this application because they are capable of handling 21' spacing. Please review the specification sheets to determine which support to use given jobsite and system conditions.

HANGER SIZING GUIDE

Table III

IRON PIPE	COPPER SIZE	INSULATION O.D./CLEVIS HANGER SIZE							
		1/2"		1"		1-1/2"		2"	
	1/2"	2.000"	1-1/2"	3.000"	2-1/2"	3.500"	3"	4.625"	4"
1/2"	3/4"	2.250"	1-1/2"	3.000"	2-1/2"	4.250"	4"	5.250"	5"
3/4"	1"	2.250"	1-1/2"	3.000"	2-1/2"	4.250"	4"	5.250"	5"
1"	1-1/4"	2.500"	2"	3.750"	3"	4.750"	5"	5.875"	5"
1-1/4"	1-1/2"	3.000"	2-1/2"	3.750"	3"	5.250"	5"	5.875"	5"
1-1/2"		3.125"	2-1/2"	4.250"	4"	5.250"	5"	5.875"	5"
2"		3.625"	3"	4.750"	5"	5.875"	5"	6.875"	6"
	2"	3.625"	3"	4.125"	4"	5.125"	5"	6.750"	6"
2-1/2"		4.125"	4"	5.125"	5"	6.750"	6"	7.750"	8"
	2-1/2"	4.125"	4"	4.625"	4"	5.625"	5"	6.750"	6"
3"		4.625"	4"	5.875"	5"	6.750"	6"	7.875"	8"
	3"	4.625"	4"	5.125"	5"	6.750"	6"	7.875"	8"
4"		5.625"	5"	6.750"	6"	7.875"	8"	9.000"	10"
	4"	5.625"	5"	6.625"	6"	7.875"	8"	8.750"	8"
5"		6.750"	6"	7.875"	8"	9.000"	10"	9.875"	10"
6"		7.750"	8"	9.000"	10"	9.875"	10"	11.125"	12"
	6"	7.750"	8"	8.750"	8"	9.750"	10"	10.875"	12"
8"		9.875"	10"	10.875"	12"	12.125"	12"	13.125"	14"
10"		12.000"	12"	12.875"	12"	14.375"	16"	15.625"	16"
12"		14.000"	14"	15.250"	16"	15.625"	16"	17.625"	18"
14"		15.125"	16"	16.375"	18"	17.500"	18"	18.875"	20"

** - This guide is a recommendation only. Please verify that your actual installation complies with above dimensions.

HANGER-OD CHART 5-28-04

STRUT/STRAP SIZING GUIDE

Table IV

IRON PIPE	COPPER SIZE	INSULATION O.D./CLEVIS HANGER SIZE							
		1/2"		1"		1-1/2"		2"	
	1/2"	2.000"	1.375	3.000"	2.625	3.500"	3.500	4.625"	4.125
1/2"	3/4"	2.250"	1.500	3.000"	2.625	4.250"	3.625	5.250"	4.500
3/4"	1"	2.250"	1.875	3.000"	2.625	4.250"	3.625	5.250"	4.500
1"	1-1/4"	2.500"	2.375	3.750"	3.500	4.750"	4.500	5.875"	5.563
1-1/4"	1-1/2"	3.000"	2.625	3.750"	3.500	5.250"	4.500	5.875"	5.563
1-1/2"		3.125"	2.625	4.250"	3.500	5.250"	4.500	5.875"	5.563
2"		3.625"	3.500	4.750"	4.500	5.875"	5.563	6.875"	6.625
	2"	3.625"	3.500	4.125"	3.625	5.125"	4.500	6.750"	6.625
2-1/2"		4.125"	3.625	5.125"	4.500	6.750"	6.625	7.750"	N/A
	2-1/2"	4.125"	3.625	4.625"	4.500	5.625"	5.563	6.750"	6.625
3"		4.625"	4.125	5.875"	5.563	6.750"	6.625		
	3"	4.625"	4.125	5.125"	4.500	6.750"	6.625		
4"		5.625"	5.563	6.750"	6.625				
	4"	5.625"	5.563	6.625"	6.625				
5"		6.750"	6.625						

** - This guide is a recommendation only. Please verify that your actual installation complies with above dimensions.

STRUT/STRAP SIZE CHART 10/16/07



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