

POLYISOCYANURATE MS®

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POLYISOCYANURATE MS® 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.

POLYISOCYANURATE MS® features improved dimensional stability over a wider range of temperatures than standard polyurethane insulation. POLYISOCYANURATE MS® is not a known nutrient source for mold and mildew.



POLYISOCYANURATE MS[®]

APPLICATIONS

POLYISOCYANURATE MS[®] use is highly recommended for any applications that require a flame propagation rating of 25 or less and a developed smoke rating of 450 or less when tested according to ASTM E84. These are standard requirements for pipe insulation located in non-plenum locations. POLYISOCYANURATE MS[®] is suitable for use as a pipe insulator in non-complete zones of commercial buildings. POLYISOCYANURATE MS[®] can be used within the service temperature range of -297 ° F to 300 ° F (-183 ° C at 149 ° C). The most regular applications for POLYISOCYANURATE MS[®] are:

- All kind of industrial pipe insulation, including elbows and fittings
- Any commercial chilled water insulation
- Tanks and vessel insulation
- Core material for architectural and structural panels
- Insulation for shipping containers, trucks or railcars
- Core material for factory built panelized constructions
- Flat or tapered board stock for roof insulation

SIZE

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

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



700 PRODUCE RD.
78557 HIDALGO, TX



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PHYSICAL PROPERTIES

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For its correct use is recommended to consult with local code officials and design engineers before the application.

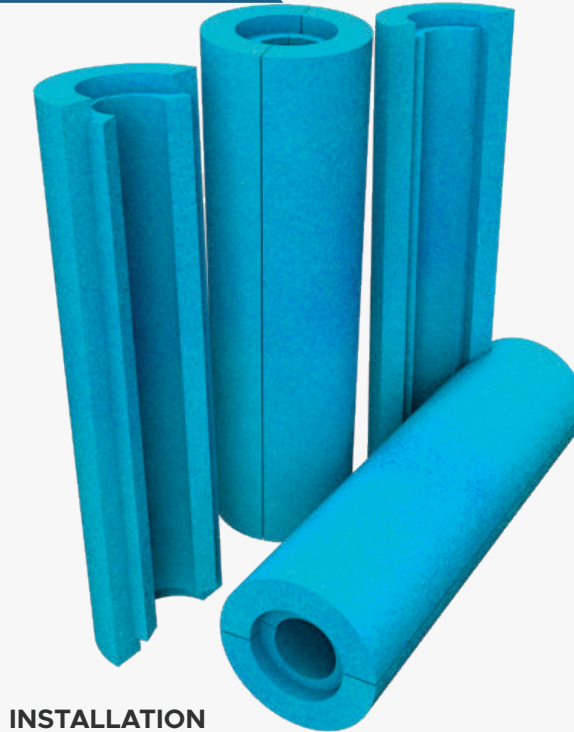
As with all cellular polymers, POLYISOCYANURATE MS[®] will be degraded by prolonged exposure to sunlight. A cover must be used to block ultraviolet radiation to help prevent degradation. Other coatings may be required to protect the insulation of different elements.

ENVIRONMENTAL DATA

POLYISOCYANURATE MS[®] is precisely formulated to provide the best thermal insulation properties without the risk of using chlorofluorocarbon or hydrochlorofluorocarbon as blowing agents. In accordance with the Montreal Protocol and the Clean Air Act, the POLYISOCYANURATE MS[®] is manufactured with hydrocarbon expansion agents, which do not have the potential for ozone depletion.

SAFETY CONSIDERATIONS

POLYISOCYANURATE MS[®] requires a safety care when it's handled. All persons who work with this material must know and follow the proper handling procedures in order to prevent accidents or any other risk.



INSTALLATION

POLYISOCYANURATE MS[®] is specifically designed for simple fabrication in many forms, such as pipe linings, valve covers and accessories, and others to meet detailed design needs. Due to the critical aspects of technical design in many different applications.



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PRODUCT INFORMATION

Property and Test Method	Value
Density lb/ft ³ (kg / m ³)	2.1 (33.6)
ASTM D 1622	
Closed Cell	95%
K- Factor , Btu * in/hr *ft ² °f (W/ m ° C)	
Initial	0.12 (0.017)
Aged 180 days @75°F (24 °C)	0.155 (0.022)
ASTM C-518	
Compressive Strength	
Parallel to rise lb / in ² (k Pa)	26 (179)
Perpendicular to rise - length lb / in ² (k Pa)	31 (213)
Perpendicular to rise - width lb / in ² (k Pa)	25 (172)
ASTM D 1621	
Service Temperature °F (°C)	-297 to +300 (-183 to + 149)
Water Vapor Permeability	
perm-inch (ng/Pa*s*m)	1.5 (2.2)
ASTM E96	
Surface Burning Characteristics	
Flame Spread / Smoke Developed (FS/ SD)	5 / 165 " up to 4" (10 cm)
ASTM E84	
Water Absorcion % by volumen	
ASTM D 2842	0.5
ASTM C 272	1.0
Coefficient of Linear Thermal Expansion	
in/in*F	35 x 10 ⁻⁴
cm/m * C	19.4 x 10 ⁻⁴
ASTM D 696	



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