



PRODUCT SELECTION GUIDE

Metal Jacketing and Foam Insulation for
Mechanical and Industrial Applications



Johns Manville Introduction

Johns Manville (JM), headquartered in Denver, CO, manufactures insulation and metal jacketing products for mechanical and industrial applications. Our materials are used on piping, tanks, vessels, and equipment in process facilities (oil, gas, chemical, petrochemical plants, and refineries), power plants (fossil fuel and co-generation), pulp and paper mills, steel and aluminum plants, refrigeration/food processing plants, textile mills, cryogenics (liquefied natural gas), and more.

Our insulation system products are also used in the commercial sector for chilled water applications as well as transportation walls and floors, military shelters, clean rooms, taxidermy, and movie/stage productions.

Wholly owned by Berkshire Hathaway, JM maintains its global leadership by setting the industry standard for reliability, quality, support, and responsiveness.



JM AUTHORIZED FABRICATOR NETWORK

JM works exclusively with our authorized fabricator network. We are committed to providing access to highly qualified and experienced fabricators located strategically throughout North America, helping ensure quick and reliable delivery and an error-free supply, minimizing construction delays. Contact us at 800-231-1024 for information on fabricators in your area.

CRITICAL INFORMATION AVAILABLE

JM prides itself on the level of support we provide our customers, contractors, owners, engineers, and specifiers. Please visit the JM website for access to information or contact our Technical Support Team at 800-231-1024 for prompt and accurate answers during business hours.



Metal Jacketing

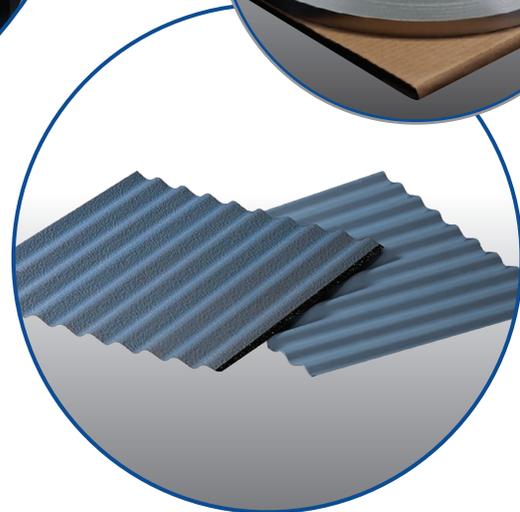
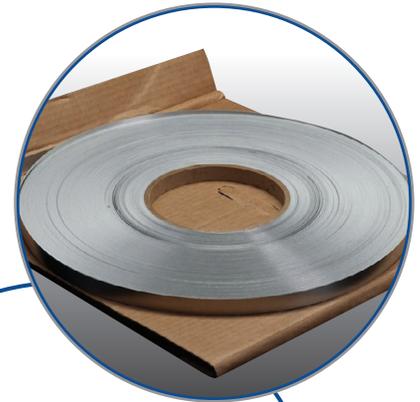
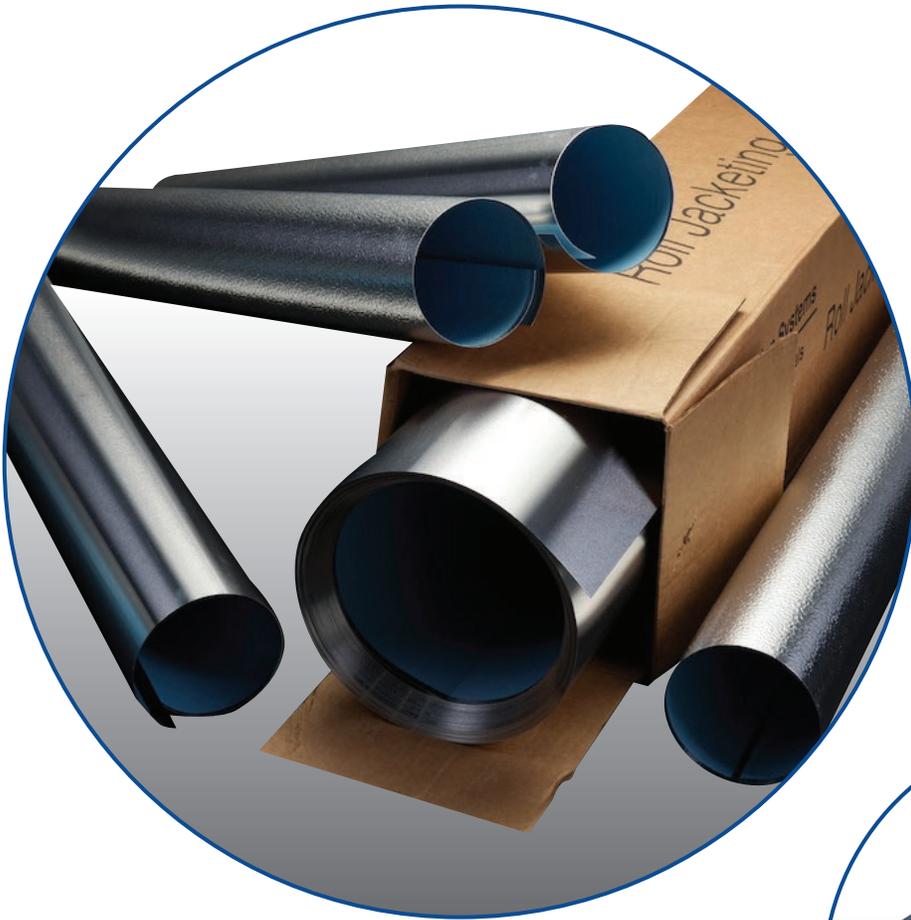
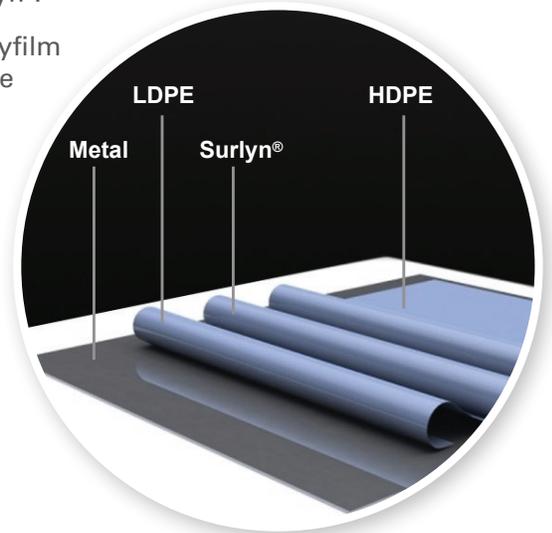
METAL JACKETING

Johns Manville offers a complete metal jacketing system to fit a wide variety of applications and requirements. We provide aluminum and stainless steel jacketing options for excellent weather and mechanical protection on insulated piping, tanks, and equipment.

Our full line of metal jacketing includes rolls, sheets, elbow covers, and accessories.

All of our aluminum and stainless steel jacketing is laminated on the interior surface with a film that is a co-extrusion of polyethylene and DuPont's Surlyn®.

This three-mil thick three-layer polyfilm is factory heat laminated across the width of the interior of the metal jacketing and offers additional protection from galvanic and pitting/crevice corrosion.



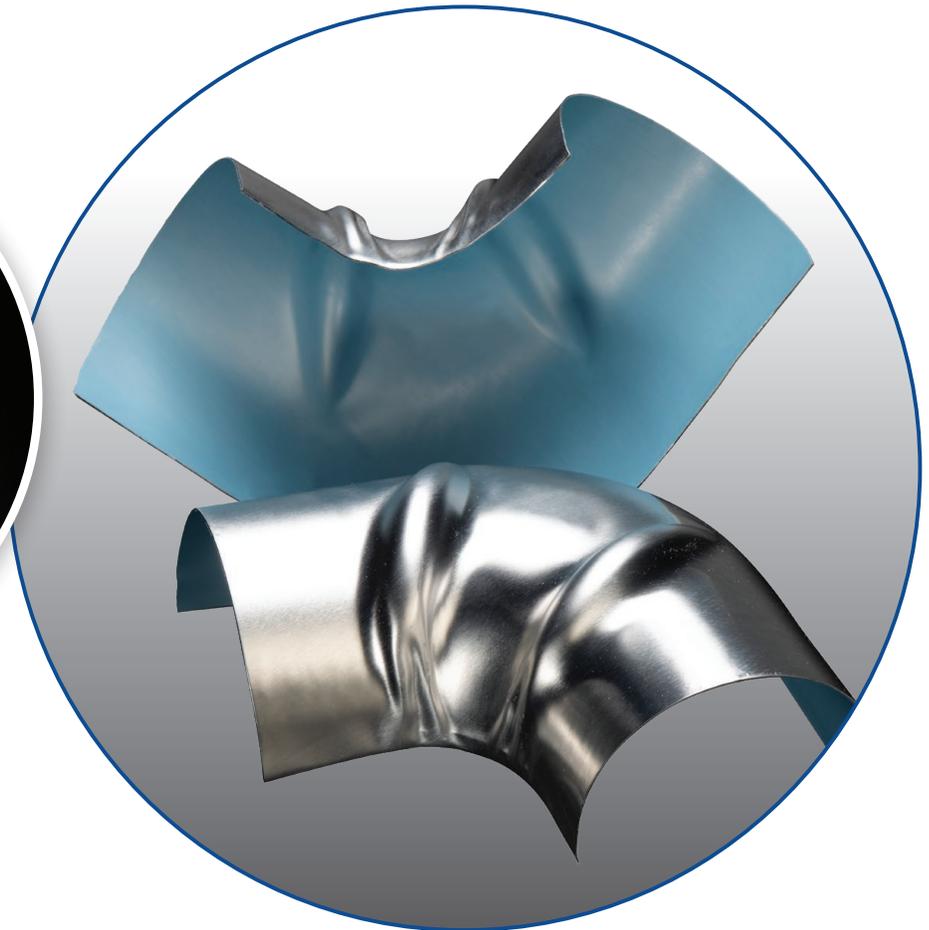
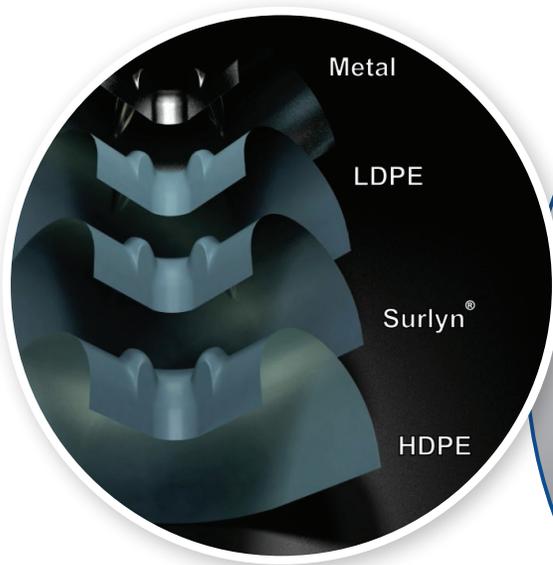
ELL-JACS™ PLUS

Like JM's Aluminum Jacketing, Ell-Jacs™ Plus are a premier protective outer surface for the elbow portion of pipe insulation systems. They offer excellent performance and are a critical accessory to complement our aluminum jacketing.

Ell-Jacs™ Plus protect the insulation and underlying pipe from physical damage, UV exposure, corrosive atmospheres, and water. They also reduce the time and labor needed to install the metal jacketing system. Ell-Jacs™ Plus feature the three-layer polyfilm moisture barrier that is

factory heat laminated to the interior surface of the 1100 series aluminum alloy used in these elbows. This moisture barrier helps prevent pitting/ crevice and galvanic corrosion potential of the interior surface of the metal elbow cover and the underlying pipe.

Ell-Jacs™ Plus is now available for the first time as a complete system without having to utilize gore sections on the elbows, benefiting both the facility owner and specifier.



*Surlyn® is a trademark of DuPont.

TRYMER® PIR Insulation

Mechanical

TRYMER Polyisocyanurate (PIR) Insulation is a closed-cell, high performance insulation for pipe, vessel, and equipment applications. With its excellent k-factor and dimensional stability over a broad temperature range, it is a cost-effective choice for chilled water, refrigeration, cryogenic, and hot pipe insulation applications.

TRYMER advantages include low permeability to resist moisture vapor drive, excellent chemical resistance, effective coverage of elbows and fittings, low installed cost, and exceptional long-term value.

Johns Manville offers a complete line of TRYMER pipe insulation products in a variety of densities and compressive strengths.

TRYMER® 25-50 PIR

TRYMER 25-50 PIR Insulation is the latest TRYMER product that offers the same great thermal performance of TRYMER PIR but with even better (lower) flame/smoke performance.

TRYMER 25-50 has an ASTM E84 flame spread/smoke developed performance of $\leq 25/50$ at up to 1.5" thickness which makes it ideal for use in chilled water applications or applications where flammability is a concern, but energy efficiency and water resistance are still important.

L Series

TRYMER L Series PIR foam is designed to meet a wide range of end user specifications. As core materials for composite products, Trymer L Series products offer many benefits over conventional polyurethane foams.

TRYMER L Series provides better bonding, optimal handling formulation for tooling and machinability, and improved impact and structural strength properties.



TRYMER® SUPERCCEL PHENOLIC

TRYMER Supercel Phenolic Insulation is a closed-cell, rigid phenolic foam insulation supplied in the form of large buns. It can be fabricated into pipe shells, curved segments, sheets, tank and vessel coverings, and other shapes for a variety of thermal insulation applications.

Much like TRYMER 25-50, TRYMER Supercel Phenolic has a very low (good) thermal conductivity and an exceptionally low flammability. It also comes in higher densities that can be fabricated to be used for saddles and pipe supports.

STYROFOAM™ XPS PIB

In refrigeration/food/beverage applications, no other insulating material can equal the performance of Extruded Polystyrene Pipe Insulation Buns (XPS PIB).

The rigid, closed-cell structure of XPS PIB gives it high compressive strength, low friability, and excellent resistance to water vapor and water absorption from freeze-thaw cycling. This allows it to maintain its superior performance over long periods of time.

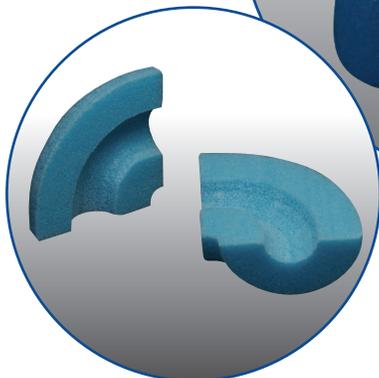
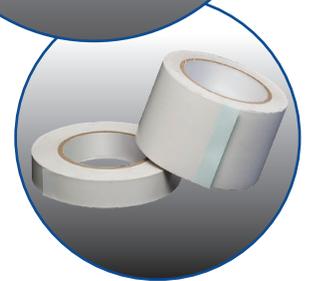
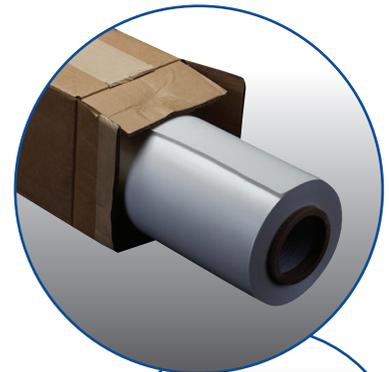
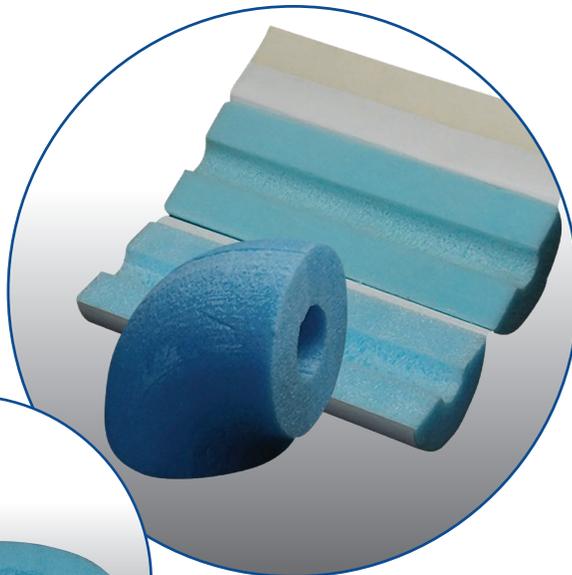
XPS PIB is manufactured in thick, seamless billets that easily accommodate common pipe sizes. This reduces or eliminates the need to bond layers of insulation together prior to fabrication.

SARANEX® CX FILM & TAPE

SARANEX CX Vapor Retarder Film and Tape provide exceptional resistance to water vapor drive into insulation.

SARANEX CX Vapor Retarder Film is made of strong PVDC polymer and is resistant to damage during installation and system operation.

SARANEX CX Vapor Retarder Tape offers an economical method to apply a vapor retarder at fittings and elbows. It is easy to install and conforms to complex shapes, creating a tight, water-resistant seal.





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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of the products listed 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. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you for current information.

All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit www.jm.com/terms-conditions or call (800) 654-3103.