



**Johns Manville**

## Zeston® 300 Series PVC

*Fitting Covers and Jacketing for Industrial Applications*

### Description

Zeston 300 Series PVC heavy-duty fitting covers and Zeston PVC jacketing are specifically designed for industrial and commercial applications.

Because of their added thickness and improved thickness distribution, they exhibit excellent impact resistance, increased durability, superior UV resistance and reduced chance of “burn through” when solvent welding.

Zeston 300 Series PVC fitting covers are produced from a white, glossy, high impact, UV-resistant polyvinyl chloride compound. Available in many shapes and sizes, they fit quickly and snugly over a variety of pipe fittings.

A variety of fitting covers and jacketing are available in color. They are recommended for indoor use only and are not UV resistant or 25/50 rated. Call for availability.

Made from the same rugged, pliable PVC material, Zeston PVC jacketing is designed to match the Zeston 300 Series fitting covers. For use over insulated pipe and bare metal, the PVC jacketing is easy to install and maintain, provides an inherent vapor retarder, and will withstand water and most chemical and low-solvency washdowns.

### Available Shapes and Sizes

**Fitting Covers.** Zeston 300 Series heavy gauge PVC fitting covers are available in many shapes and sizes. Its two piece or two-piece welded construction provides ease of fabrication in the field not available in a traditional one-piece fitting cover. This construction is engineered to accommodate various types of fabricated insulation fittings and an improved “matched” fit in the fitting throat area when solvent welding.

Zeston 300 Series heavy gauge is available in shapes for 90° and 45° (1.6 and 0.8 rad.) short and long radius elbows, tees, and valves plus a wide variety of other fittings, flanges, reducers, end caps, soil pipe hubs, traps, and mechanical line fittings. IPS sizes are available from ½” through 24” (13 mm through 610 mm); CT sizes from ½” through 6½” (13 mm through 156 mm).

**Rolls.** Zeston PVC jacketing is available in standard thicknesses of 10,15,20, 30 and 40 mil (0.3, 0.4, 0.5, 0.8 and 1.0 mm) and in standard widths. Non-standard sizes are available on special request.

**Cut & Curled™ Jacketing.** Zeston 300 Series heavy gauge fitting covers may be used with Zeston PVC Cut & Curled jacketing for perfect fit and color match. The jacketing is available in both white and colors (indoor use only) for 300 Series fitting applications.

The 30 mil (0.8 mm) thickness is recommended for outdoor applications.

### Custom Shapes and Sizes

For fitting covers and Cut & Curled jacketing sizes larger than 20” (508 mm) and custom shapes and sizes, call for availability.



### Operating Temperature Limits:

PVC: Up to 150°F (66°C)

**Flame Spread:** 25 or less (up to 30 mil [0.8 mm])

**Smoke Developed:** 50 or less (up to 30 mil [0.8 mm])

**Grade:** Weatherable

**Color:** White & Colors (indoor use only)

**Finish:** Gloss

### Applications

For insulating and protecting indoor and outdoor industrial and commercial piping systems, Zeston 300 Series PVC is the ideal replacement for aluminum, stainless steel, and most other ordinary insulation coverings. For use with Micro-Lok® fiber glass pipe insulation and a variety of other pipe insulations. The fitting covers, combined with Zeston PVC jacketing and Perma-Weld® Adhesive form a completely sealed system that meets the requirements of USDA and FDA for use in the food processing, beverage and pharmaceutical industries.

### Advantages

**Exceptional Durability.** The tough, durable Zeston 300 Series PVC resists damage from impact and will withstand humidity, salt water, adverse weather conditions, and most industrial fumes. In addition, the jacketing will not support combustion.

**Weatherability.** When used outdoors, the ultraviolet-resistant PVC jacketing and fitting covers need not be painted or coated.

**Corrosion Resistance.** Unlike aluminum or most stainless steel jacketing materials, Zeston PVC is immune to galvanic or electrolytic corrosion.

**Ease of Maintenance.** The jacketing and fitting covers are easily washed down with soap and water and most commercial cleaners. The ability to be easily cleaned, combined with the non-toxic, odorless and tasteless properties of the material and its attractive appearance, make it especially suitable for food, beverage and pharmaceutical applications.

**Simple, Fast Installation.** The Zeston 300 Series is easy to apply with the special Perma-Weld 300 adhesive which is similar in composition to the PVC jacketing material. The result is a monolithic system. Suitable bands may be used when required.

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## Specification Compliance

USDA	L-P-535E*, Composition A,
New York City MEA #7-87	Type II, Grade GU
ICBO	L-P-1035A*, Composition A,
SBCCI	Type II, Grade GU
BOCA	Canada: CAN S102.2
ASTM D 1784, Class 16354-C	CGSB 51-GP-53M

\*Impact strength determined by Gardner—SPI test method rather than Izod, since Gardner is more appropriate for PVC sheeting materials.

## Physical Properties

Property	Value	ASTM Test Method
Specific Gravity	1.48	D 792
Tensile Strength at Yield, psi (kPa)	6,000 (41,370)	D 638
Elongation at Yield (MD), %	3.0	D 638
Tensile Modulus, psi (kPa)	470,000 (3,240,650)	D 638
Flexural Strength, psi (kPa)	11,600 (79,982)	D 638 (min. .125" [3 mm] thick)
Flexural Modulus, psi (kPa)	460,000 (3,171,700)	D 790
Flame Spread	25 or less (up to 30 mil [0.8 mm])	E 84
Smoke Developed	50 or less (up to 30 mil [0.8 mm])	E 84
Electrical Conductance	Non-Conductor	D 257
Gardner—SPI Impact, in. lb./mil by Ductile Failure	10 mil (0.3 mm) 1.3 15 mil (0.4 mm) 1.4 20 mil (0.5 mm) 1.5 30 mil (0.8 mm) 1.6	D 3679 (4 lb. [1.8 kg] weight; 8 lb. [3.6 kg] for 30 mil [0.8 mm])

Note: Chemical resistance data available on request.



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## Performance Materials Division

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CI-67 6-05 (Replaces 5-04)

The physical and chemical properties of Zeston® 300 Series PVC Fitting Covers and Jacketing 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 to assure current information. **All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, call the 800 number below.** For information on other Johns Manville thermal insulations and systems, and a copy of the Spec-Line® CSI formatted specification, call **1-800-654-3103**.

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