

## Zeston 2000 Series PVC

### Insulated Fitting Covers and Jacketing

**Simple, fast installation.** Requires no special tools. Just wrap the fiber glass insert around the fitting and tuck it in as necessary; pop on the fitting cover and smooth it into position; secure with tacks, or tape as required. Over insulation, jacketing is secured with tacks, tape or adhesive. Where the jacketing is applied over bare pipe, it is quickly banded, taped, or solvent welded.

**Neat appearance, paintable.** Attractive, white Zeston 2000 PVC provides excellent appearance. The smooth finish may be painted if desired. Use pastel-colored, high quality acrylic latex paints outdoors.

**Exceptional durability.** The tough, durable Zeston 2000 PVC resists damage from impact and will withstand humidity, salt water, adverse weather conditions, and most industrial fumes.

**Corrosion resistance.** Unlike aluminum or most stainless steel jacketing materials, Zeston 2000 PVC is immune to galvanic or electrolytic corrosion.

#### Physical Properties of Zeston 2000 PVC

| 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. 0.125" [3 mm] thick specimen)                                |
| 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<br>15 mil (0.4 mm) 1.4<br>20 mil (0.5 mm) 1.5<br>30 mil (0.8 mm) 1.6 | D 3679<br>(4 lb. [1.8 kg] weight;<br>8 lb. [3.6 kg] for 30 mil [0.8 mm]) |

Note: Data on chemical resistance is available on request.

**Ease of system testing.** Jobs can be completed more quickly because with the Zeston method the fitting is done last. There is no waiting for the piping system to be completed and pressure tested. Straight runs of insulation can be applied leaving fittings and joints exposed. After pressure testing, fitting covers can be installed.

**Economical.** Can be easily removed and reused to lower maintenance costs.

**Wide temperature range.** Applications from 0°F to 450°F (-18°C to 232°C). The temperature to which the PVC is exposed should be within the range of 0°F to +150°F (-18°C to +66°C).

**High thermal efficiency.** Insulation value of Hi-Lo Temp insert with a thermal conductivity of .28 (0.040) at 75°F (24°C) mean temperature assures you a more efficient insulation installation than an insulating cement system.

**Finish.** White color blends with present pipe covering jackets. Smooth finish can be painted with a high quality, acrylic latex paint. Pastel colors are recommended for outdoor applications.

**Clean.** Simple to clean using soap and water. Zeston 2000 PVC products are excellent for use in food and pharmaceutical plants where hygiene requires cleanable materials.

**Chemically resistant.** Will withstand water, acids, alkalis, or chemical washdowns. Resists alcohols, aliphatic hydrocarbons and oils. Soluble in ketones and esters; swells in aromatic hydrocarbons.

**No mixing.** Eliminates the need for buckets, hoses, trowels, etc.

#### Hi-Lo Temp fiber glass insert

**Handling comfort.** The fitting covers are supplied with Hi-Lo Temp Formaldehyde-free™ fiber glass insulation inserts for a "friendlier feel" during installation.

**Conformability.** Excellent molding and forming properties—improved workability.

**Vapor and moisture resistant.** Fibers cannot adsorb moisture. Resistance to moisture facilitates rapid drying out.



#### Hi-Lo Temp fiber glass insulation insert

##### Physical properties

| Thermal conductivity | Mean Temp.                     |     | "k"                             |        |
|----------------------|--------------------------------|-----|---------------------------------|--------|
|                      | °F                             | °C  | Btu·in/(hr·ft <sup>2</sup> ·°F) | W/m·°C |
|                      | 75                             | 24  | .28                             | .040   |
|                      | 150                            | 66  | .34                             | .049   |
|                      | 300                            | 149 | .45                             | .065   |
| Temperature limits   | 0°F to 450°F (-18°C to +232°C) |     |                                 |        |