



## 62-05      PROPERTIES

### Finish:

- Smooth, Aluminum
- Embossed, Aluminium
- Smooth, Black
- Smooth, White

**COMPOSITION:** 5 ply Aluminum / Polymer laminate with pressure sensitive adhesive and release liner.

### SERVICE TEMPERATURE:

(Temperature at jacketing surface)  
-40° F to 250° F (-40° C to 121° C)

### STANDARD ROLL SIZE

0.5m x 50m

### TOTAL FILM THICKNESS:

5 mils (0.12 mm)

### TENSILE STRENGTH AND ELONGATION (PSTC-131)

Tensile Strength	70 lbs / inch (120 N/ cm)
Elongation	90%

### WATER VAPOR PERMEANCE (ASTM F 1249):

0.00 perms Tested at 100°F (38°C) and 90% RH.

### PUNCTURE RESISTANCE (ASTM D-1000):

32 lbf (140 N) minimum

### OVERLAP ADHESION (ASTM D 1000):

60 oz inch (0.424 Nm)

### TEAR STRENGTH (ASTM D 624):

5.5 lbf (24 N) (Type C)

### SURFACE BURNING CHARACTERISTICS (ASTM E 84):

Flame Spread:	0
Smoke Developed:	5

Applied to 1/4 inch (6.4 mm) inorganic reinforced cement board. The flame spread may vary when applied over other surfaces.

### EMISSIVITY

0.09

## Vapor Barrier Jacketing

**Vapor-Fas 62-05** is a flexible vapor barrier jacketing material designed for use over insulation on commercial ductwork, piping and equipment. It is comprised of a 5-ply aluminum and polymer laminated film with an aggressive pressure sensitive adhesive and release liner. The special multi-ply laminate film contains an outer protective coat that improves resistance to UV and environmental contaminants. It has extremely low permeability and has excellent resistance to puncture and tearing. It provides protection to the insulation from weather, moisture ingress and physical abuse.

**Vapor-Fas 62-05** can be used over most types of thermal insulation including cellular glass, polyurethane, polyisocyanurate, polystyrene and rigid fibrous insulations. It resists mold and mildew growth on its surface and has excellent weathering properties making it ideal for both indoor and outdoor applications.

**Vapor-Fas 62-05** provide a fast, labor saving application. It can be easily applied in the field or in the shop with no special tools required. It can be used for both new systems as well as repairs on existing structures.

**Vapor-Fas 62-05** meets NFPA 90A and 90B 25/50 requirements for a Class 1 material.

### LIMITATIONS

Apply below 125°F (52°C).

Do not apply to damp, frosty or contaminated surfaces.

Not for use below grade in direct contact with the earth.

Vapor Barrier Jacketing is not to be used for banding or mechanical fastening. Standard fastening of insulation is required.

HVAC ductwork must be sealed and tested for air leakage prior to applying insulation and Vapor-Fas jacketing.

For application by skilled professionals only.



## APPLICATION GUIDE FOR VAPOR-FAS 62-05 JACKETING

### PREPARATION

Apply only to clean, dry, oil-free surfaces. Dirt, dust, loose insulation must be removed prior to application. Insulation surface should be as smooth as possible to provide a neat even finished appearance.

### APPLICATION

Vapor-Fas 62-05 can be used as a jacketing material over a variety of (semi-)rigid and flexible insulation materials. Flexible elastomeric insulation can expand and contract under various conditions. Vapor-Fas 62-05 is designed only for insulation protection, not to hold insulation in place. If additional securement is required and allowed by the specification, metal bands or 100mm wide Vapor-Fas 62-05 tape, cut to the length of the insulation circumference + 75 mm or more can be used. Numerous factors beyond Temati's control can affect the use and performance of Vapor-Fas in a particular application. Therefore users are solely responsible for evaluating Vapor-Fas and determining whether it is fit for a particular purpose or suitable for the intended method of application.

Vapor-Fas 62-05 jacketing is best applied by cigarette wrapping on piping. Cut membrane to desired length. Ensure length includes a minimum 3" (75 mm) overlap. For best finished appearance keep the machine direction of all pieces of Vapor-Fas aligned in the same direction. Start by positioning the membrane such that the finished overlap will allow for water to drain over and not into the lap. Peel back six to twelve inches of the release liner taking care not to allow any exposed adhesive to touch itself. Firmly press exposed edge of sheet in place and continue removing release liner and smoothing sheet to substrate. Avoid wrinkling.

All longitudinal and circumferential seams must be overlapped a minimum of 3" (75 mm). Ensure complete contact at the laps and to the substrate using a tape squeegee or roller applying firm pressure throughout.

When Vapor-Fas™ jacketing is applied over flexible elastomeric insulation, or other insulations that may expand and contract as a result of temperature fluctuations, from exterior exposure or system cycling, all overlaps shall be sealed by an additional 100 mm wide tape strip over the lap.

For rectangular duct work the top shall be sloped to avoid ponding water and ensure run-off. Pieces of jacketing should be cut and applied to ensure complete water drainage over and not into the laps. The bottom piece should be cut and applied first such that it extends a minimum of 3" up the side of the duct. Side pieces should be cut next to cover the entire side of the duct from top to bottom. Finally a top piece should be cut and applied covering the entire top surface and extending a minimum 3" down the sides. Alternatively, for smaller duct, one or two pieces of jacketing may be used ensuring that all final laps are overlapped a minimum of 3" and drain over the top.

For elbows, bends, tees and reducers follow procedures used for fitting metal jacketing by cutting gores, legs, sine waves, and C-collars from the roll of Vapor-Fas jacketing to fit the insulation radius and diameter. All fittings should be cut to allow for 2" overlaps. Where 2" overlaps are not possible butt the two fitted pieces up as tightly as possible, avoiding wrinkling of the sheet. Then use 3" to 4" strips of Vapor-Fas jacketing to seal all joints a minimum of 1½" overlap on both sides. Use care to ensure all fittings are completely vapor sealed.

All penetrations, insulation supports, valves, expansion and contraction joints and other protrusions must be properly flashed to ensure complete seal between the protrusion and the jacketing. Foster Elastolar® Sealant, 95-44 may be flashed directly over the jacketing.

On low temperature applications ensure the insulation and jacketing are free from frost or condensation. Apply the jacketing as normal ensuring good adhesion at all overlaps. At temperatures below 20°F a heat gun and squeegee or roller are suggested to warm the sheet and obtain optimal adhesion at the overlaps.

Repair damaged jacketing by cutting out the damaged section and patching it with new jacketing over the empty section, overlapping the existing sheet by a minimum of 3" (75 mm) all the way around the repaired area.

To improve adhesion to dusty insulations, such as PIR, the insulation may be primed with Fos-stik Aerosol Adhesive.

Note: When applying Vapor-Fas jacketing over PIR pipe insulation greater than 4" pipe diameter follow insulation manufacturers' recommendations for additional mechanical fastening.