



## FABWRAP™

**Fabwrap™** is a laminated vapor barrier membrane, composed of a rubberized bitumen compound on a high strength film with a white or Aluminum surface. **Fabwrap™** is USDA acceptable when using a tape system, 0.000005 Perm, self-healing, indoor UV resistant, peel and stick vapor barrier membrane requiring no subsequent jacketing. **Fabwrap™** is an excellent 'over insulation' jacket for use where operating temperatures require superior vapor barrier properties. Such systems include chilled water piping, ammonia refrigeration piping, glycol piping, brine piping, cold vessels, and equipment associated with these systems. **Fabwrap™** will tolerate hot wash downs in food production areas up to 180° F when using our USDA acceptable installation system.



Property	ASTM Test Method #	Typical Results English	Metric
Total Product Thickness	D 1000	.025"	.635 mm
Water Vapor Transmission	E 96 B	< 0.000005 Perms	
Overlap Bond @ 70° F	D 1000	> 31.5 LB/In Width	> 5.64 N/mm
Overlap Bond @ -31° F	D 1000	> 9.11 LB/In Width	> 1.63 N/mm
Low Temperature Flexibility	D 146	No Cracks @ -25°F	@ -31.7°C
Puncture Resistance Backing	E 154	> 40 LBS	18.1 KG
Fungus Resistance Membrane	G 21-90	0 Growth	0 Growth
Flame/Smoke Backing*	E-84-98	Flame 10, Smoke 10	
Flame/Smoke Composite	E-84-98	Pending 25/50 Testing	
USDA Approval on a Job by job Basis			



**Fabwrap™** is manufactured to facilitate an OEM insulation fabricator applied vapor barrier membrane. **Fabwrap™** is available pre-applied to fabricated insulations such as polyisocyanurate foam, expanded and extruded polystyrene foam, and Phenolic Foam for cold systems. **Fabwrap™** is not intended as a mechanical fastener, banding or some other closure support is required if it is per-applied to pipe insulation.

**Fabwrap™** is available in rolls for field application on duct or pipe systems.

**Fabwrap™** is an excellent choice for ultra cold systems (LNG Piping) where it will be protected by a metal jacket—it's cold flow self-healing properties AND it's zero perm rating make it the perfect choice for the outer vapor barrier on these systems.

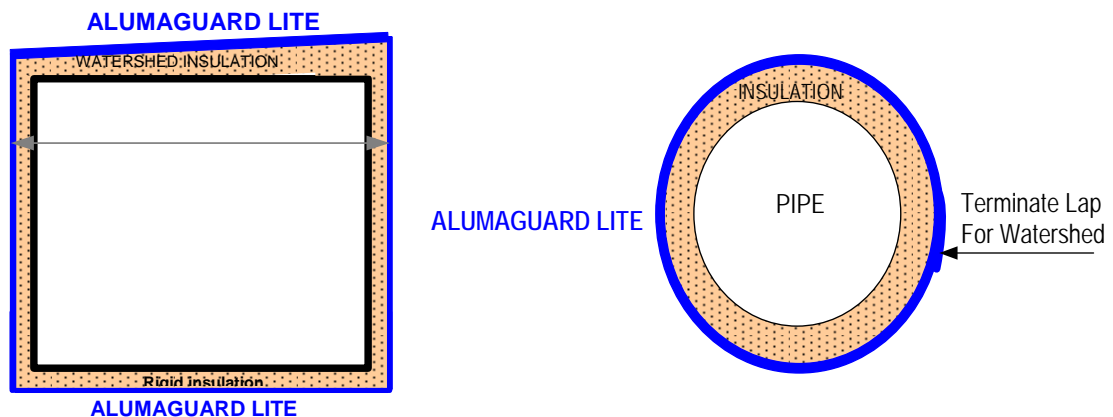
**Fabwrap™** can be field applied from cut to length sections supplied by OEM insulation fabricators. **Fabwrap™** is supplied in 23-1/2", 35-1/2" and 4" wide rolls. Installation of **Fabwrap™** should include a 3" lap and the circumferential joint sealed with a 4" butt-lap. **Fabwrap™** is not a mechanical fastener; install the insulation according to the manufacturer's recommendation with strapping tape or banding.

Valves, strainers, odd shaped equipment, and other miscellaneous fittings can be spiral wrapped with 4" wide strips. Elbows can be fabricated using standard two-piece layout practices modified by adding an extra 2" of lap material to the throat and heel of the layout pattern.

**Fabwrap™** can also be installed over cold duct systems where a positive self-healing vapor barrier membrane is desired. Cold ducts **must** be sealed in accordance with **SMACNA HVAC Duct Construction Standards Metal and Flexible - Second Edition (1995) Seal Class A** prior to insulation of Fabwrap membrane.

When installing **Fabwrap™** in temperatures below 50° F, we recommend the use of either our solvent or water-based activator to ensure adhesion. Our low temperature activators greatly enhance adhesion down to -4°C. Solvent-based activator will attack some foam products, be sure to test your substrate prior to applying our solvent-based activator.

**\*NOTE:** As with any product, airborne chemicals in a plant environment can affect the yellowing of "plastics". Exhaust fumes from forklifts for example will discolor many jackets.



Please call **Polyguard** for any special applications or difficult environments prior to installing **Fabwrap™**. Do not use on liquid oxygen lines.