



LIT INDUSTRIES,
INC.

Protecting Your Equipment
Investment With...

RapidWrap™

Removable, Reusable
Thermal Insulation Covers



RapidWrap™ Thermal Removable Insulation Covers

Solving Insulation Problems Cost Effectively

RapidWrap™ thermal removable insulation covers are specifically designed for easy installation, removal, and reinstallation, ensuring shorter down-time for reduced maintenance and labor costs. Designed to withstand harsh conditions, including temperatures to 1200°F in its basic form, durable **RapidWrap™** covers also offer the economy of long life. They eliminate the need to reinsulate for routine maintenance or when repairing equipment problems. **RapidWrap™** covers can be designed to accommodate extreme temperatures, up to 2300°F, extending product life and maximizing return on investment. This superior durability under harsh conditions, coupled with ease of maintenance, makes **RapidWrap™** covers the most cost effective choice available on the market.

As a leading supplier and fabricator of high quality insulation products for over twenty years, LIT Industries, Inc. specializes in innovative solutions for difficult applications. Our experienced staff, which includes a certified Insulation Energy Appraiser, will analyze your equipment insulation needs and provide a thermal removable insulation cover to meet your most exacting specifications and requirements. We can design and fabricate any conceivable shape and size, and with multiple facilities in North Carolina, Georgia, and New Jersey, you can be assured that you will have your products where and when you need them.





Typical Payback (Savings Divided by Cost) In Less Than Six Months

Typical Case Study

Variables

This heat flow calculation was performed with the North American Insulation Manufacturers Association 3-E Plus Program using the following variables:

| | |
|-----------------------------------|-------------------------------------|
| Pipe and Flat Surface Orientation | Horizontal |
| Average Wind Velocity | 3 mph |
| Outside Surface Emittance | 0.9 (Silicone Impregnated Cloth) |
| Bare Surface Emittance | 0.80 |
| Ambient Temperature | 85°F |
| Insulation Material | Needled Fiberglass Mat (ASTM C1086) |

Specifications

A 6" 150# flanged valve operating at 500°F is not currently insulated. The owner wants to know what the average energy savings and payback period will be if he insulates the valve with a 2" thick **RapidWrap™** cover.

| | |
|-------------------------|--|
| Surface Area | Bare – 9.9 sq. ft. Insulated – 14.0 sq. ft. |
| Cost of Energy | \$6.04*/MMBTU (natural gas) |
| Efficiency | 75% |
| Hours of Operation/Year | 8,760 (full-time) |
| Bare Heat Loss | 9.9 sq. ft. x 1,527 BTU/sq. ft. = 15,117 BTU/hr. |
| Insulated Heat Loss | 14 sq. ft. x 70 BTU/sq. ft. = 980 BTU/hr. |
| Difference | 14,137 BTU/hr. x 8,760 hr. = 123.84 BTU/year |
| Savings | 123.84 MMBTU x \$8.05/MMBTU = \$996.91/year or \$83.08/month |

Assuming the cost of the **RapidWrap™** cover to be \$275, the owner will receive payback on his investment in just 3.3 months. Because **RapidWrap™** covers are custom fit, virtually any piece of thermal equipment in any industry can be insulated.

Custom Designs Offer Versatility for Problem Solutions

Because **RapidWrap™** covers are custom-fit, virtually any piece of thermal equipment in any industry can be insulated:

- * Valves
- * Manways
- * Flanges
- * Heat Exchangers
- * Gas Turbines
- * Steam Turbines
- * Vessel Heads
- * Pumps
- * Strainers
- * Expansion Joints
- * Compressors
- * Inspection Ports
- * Plastic Extruders
- * Diesel Exhaust
- * And more...

*Based on the Energy Information Association National 5 year average for 2001-2005



RapidWrap™

Covers Offer Money Saving Features

Asbestos free, environmentally safe **RapidWrap™** thermal removable insulation covers incorporate a totally self-contained insulation system, constructed of a fiberglass or ceramic filler encased with a fully encapsulated outer jacketing. **RapidWrap™** covers are fabricated using field verified dimensions that are translated into CAD generated drawings for a perfect fit every time. Because cover pieces can be easily removed and installed using your personnel, you save on installation costs.

Our top quality insulation materials can help you reduce fuel consumption by as much as 96%. In addition to cost savings, less fuel means reduced pollution as fewer greenhouse gases are produced. Each cover is assigned its own unique number, embossed on a stainless steel plate that is securely attached to the cover to assist when reordering.



Closure Systems

- Standard Velcro®
- Nomex High Temperature Velcro
- Lacing Anchors
- Grommets
- Belts/Straps
- Capstans
- Springs

Fillers

Your custom designed cover will utilize the filler best suited for your specific application:

- Fiberglass Mat
- Superwool®
- Light Density Fiberglass Blanket
- Microlite® AA
- ManninGlas®
- Various Foams
- Vinyl Liner

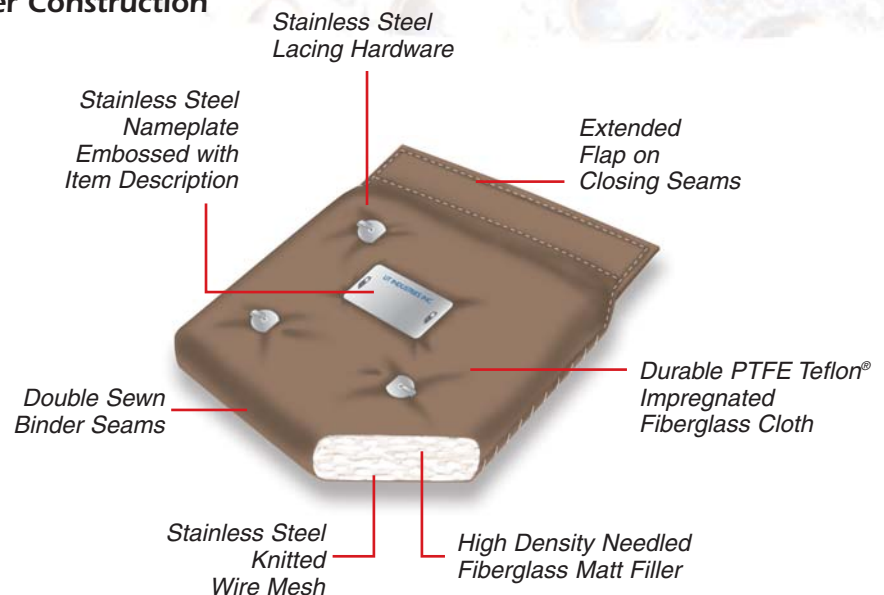
Enclosures

The facings for your cover will be chosen based on the specific application to maximize its value:

- Stainless Steel Mesh
- Inconel® Mesh
- Teflon® Coated Fiberglass Cloth
- Silicone Coated Fiberglass Cloth
- Vermiculite Coated Fiberglass Cloth
- Plain Fiberglass Cloth
- Silicone-Impregnated Fiberglass Cloth
- Vinyl Cloth
- Silica Cloth
- Aluminized Cloth



Typical **RapidWrap™** Cover Construction



Leader in Insulation Technology

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