

REDUCING ENERGY LOSS

INSULATION PADS

WHAT

The Insulation Pads from Shur-Fit are made of a **non-combustible inner lining**, followed by an insulation material with another **non-combustible layer on the outside**.

The pads are **flexible, vibration resistant** and can be installed on irregular or difficult to access fittings. Their **simple fastening system** allows plant personnel quick access to remove and reuse the equipment. The insulating pads can also contain built in acoustical barriers to help control noise.



WHY USE THEM

More often than not during routine maintenance the insulation that covers pipes, fittings and valves is either damaged or torn off completely to allow for access to the part being serviced. These **exposed fittings** are not only a **safety hazard** to personnel but they also represent a **major source of heat loss**.

Removable and reusable insulation pads solve this problem and provide significant cost savings.

APPLICATIONS

- Insulation pads are commonly used in **industrial and institutional facilities** for insulating:

- Flanges
- Valves
- Expansion joints
- Heat exchangers
- Steam de-aerators
- Pumps
- Man way covers
- Turbines
- Tanks
- Other irregular surfaces that are too hard to insulate using conventional methods

- As a general rule, **any surface** that reaches a **temperature greater than 120°F** should be insulated to provide personal protection

AVAILABILITY

Shur-Fit Products offers a **full site energy audit**. A comprehensive assessment will be completed and a report showing loss, potential improvements and rate of return on investment will be provided.

We also offer a **complete design and install service of removable insulation pads**. There are 2 options:

1. For indoor applications - Standard fiberglass cloth on the inside of the pad, followed by a 1" or 2" thick later of tempmat fiberglass insulation with Teflon coated fiberglass material on the outside.
2. For outdoor applications - Teflon coated fiberglass material both inside and outside with either a 1" or 2" thick Tempmat fiberglass insulation internally.

ENERGY SAVINGS

The following tables summarize the energy lost through exposed pipe and the energy savings due to the use of insulating valve covers for a range of valve sizes and operating temperatures. These values were calculated using the 3E Plus computer program (3E Plus uses the heat flow calculation method described in ASTM C680 titles). Energy Savings is defined as the difference in heat loss between the uninsulated valve and the insulated valve operating at the same temperature.

