



UNIVERSAL ENTERPRISES



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## **Custom manufactured insulation and removable covers**

Equipment requiring service or maintenance needs a removable and reusable insulation solution to cover pipes, valves, fittings, tanks, turbines that are often badly insulated and where existing permanent insulation is often damaged or removed and not replaced. Pipes, valves, and fittings that are not insulated can be safety hazards and sources of heat loss.

We can custom design and supply flexible, removable and reusable insulating pads to cover almost any surface. The pads are made of a non-combustible inside cover, insulation material, and a non-combustible outside cover that resists tears and abrasion. Depending upon the customer preference or application, wire laced through grommets, Velcro® straps or straps with buckles hold the pads in place.

□ **Uses:** Valves, pumps, piping, flanges, safety valves, exhaust pipes, screens, controllers, heat exchangers, extruders, moulders, threaders, instrumentation, nuclear reactors, turbines, fans, parking gates ...

□ **Advantages:** High quality hand-made manufacturing according to your measurements, removable and reusable, flexible, waterproof, safe for the environment.

□ **Offer:** access for quick maintenance and tool-free installation, condensation control corrosion prevention, noise reduction, radiant heat control or reduction, personal protection, reduced maintenance and energy costs

□ **Resistance:** Thermal: 0°C to 250°C. Higher temperature withstanding available on request





## Energy Savings with Removable Valve Insulation

Getting the most out of your pipeline applications requires attention to heat—and sources of heat loss. The more heat you lose the higher the cost, so identifying key areas for insulation can go a long way towards increasing efficiency. Valves, flanges, expansion joints, and other irregular surfaces are common culprits of heat leakage, and maintenance often damages existing insulation. To circumvent these issues, many industrial professionals turn to removable insulation to maximize heat retention and increase pipe performance.

As a general rule, any surface that reaches temperatures greater than 120°F/50°C should be insulated, in order to protect personnel. The use of reusable insulation pads is pivotal in maintaining a safe environment: because the pads can be periodically removed for inspection and replaced as needed, they are an effective way to resolve current heat loss issues and prevent problems down the road. Insulating pads can also contain built-in acoustical barriers to help control noise. Reusable insulating pads are commonly used in Industrial facilities for insulating flanges, valves, expansion joints, heat exchangers, pumps, turbines, tanks, and other irregular surfaces. The pads are flexible and vibration resistant and can be used with equipment that is horizontally or vertically mounted or that is difficult to access. Any high temperature piping or equipment should be insulated to reduce heat loss, reduce emissions, and improve safety. Depending on valve size and operating temperatures, insulating valve covers can achieve impressive energy savings.





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### Lightly Resin Bonded Mattress – LRB Mattress

Lightly Resin Bonded mattresses are made of fine fibres spun from selected rocks melted at high temperature and bonded with a Thermo setting resin. The uniform distribution of fibres, the fine diameter of fibre and flexibility are the unique characteristics of Rockwool Lightly Resin Bonded mattress. The properties are controlled to form mattress of predetermined density and thickness. The flexibility of mattress enables it to be application curved surfaces & hence, is ideal for industrial boiler insulation, hot air duct insulation, tank insulation. Rockwool Lightly Resin Bonded mattress can be faced on one side or both sides to form a firm and flexible multipurpose insulating media. The facings may be Aluminium Foil or Galvanized wire mesh or Stainless Steel wire mesh of different specifications. Lightly Resin Bonded mattress provide excellent stability, due to uniform thickness and density, resulting in prevention of heat loses

#### AVAILABILITY:

- **STANDARD DEMENSIONS:** 1.640 X 1.220 M.
- **THICKNESS (MM):** 25, 40, 50, 60, 65, 75, 100.
- **DENSITY (KG / M<sup>3</sup>):** 100, 120, 128, 144, 150.
- **WIRE NETTING:** 1/2"X22G, 3/4"X24G.
- **SPECIFICATIONS:** As per IS: 8183.
- **TEST METHOD:** As per IS: 3144.
- **MAX SERVICE TEMPERATURE:** 750°C.





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## Lightly Resin Bonded Mattress – LRB Mattress

- **FACING:** LRB Mattresses are available with wired mesh on one or both sides in SS or GI.
- **MOISTURE:** Non-hygroscopic, non-capillary and does not absorb any moisture from the air. Moisture has no effect on the stability of the mattresses.
- **FIRE RESISTENCE:** Non-combustible when tested in accordance with BS - 476 part - 4 and ASTM E - 136. Class1 when tested in accordance with BS - 476 parts 7, (ASTM E- 84).
- **PACKING:** LRB MATT's mattresses are packed in HDPE bags.
- **COROSSION RESISTENCE:** Mattresses do not cause, initiate or promote any kind of corrosion.
- **FLEXIBILITY:** Mattresses are very flexible. They will essentially retain thickness while conforming to any irregular shape. Retention of fibres by wire mesh prevents cracking or breaking of mattresses.

### BENEFITS OF LRB MATTRESSES

Non-combustible  
Moisture resistant  
Neither cause nor accelerate corrosion  
Durable and do not sag and settle

Good acoustic properties  
Fire retardant  
chemically inert  
Easy to handle and apply.

Better Insulation properties

