



# HI-TECH THERMAL INSULATIONS PVT LTD

( AN ISO 9001:2008 Certified Company)

Removable Insulation covers for Maintenance, Repairs & Operations

100%  
Asbestos free



Turbine Insulation



Exhaust Insulation



Valve Insulation

## RIC Quick Facts

- Prevents heat loss
- Impervious to liquids
- Weather resistant
- Chemical Resistant
- Fire endurance.
- Easy removable & Reusable
- Saves energy
- Safe to employees
- Designed as per ASTM standards.
- Available in Custom Fit & standard covers



## HI-TECH THERMAL INSULATIONS PVT. LTD.

402, The Great Eastern Galleria, Plot no.20, sector- 4, Nerul,  
Navi Mumbai- 400 706. Maharashtra (India)

Ph : 91-22-27712448, 27719154, Fax : 91-22-27718801

Website: [www.htiinsulation.com](http://www.htiinsulation.com) Email: [sales@htiinsulation.com](mailto:sales@htiinsulation.com)

India Ratings  
& Research

Verified  
By  
  
CRISIL



ISO 9001 - 2008



# Hi-Tech Removable Insulation Covers

For Power Generation, Nuclear, Marine ,steam & Gas Turbine Mfg.,  
Diesel & Loco Engines, Heavy Earth Movers Mining &  
Automobile Industries.

HI-TECH Removable Insulation Covers, are designed to withstand harsh conditions, including temperatures upto 1650°C. These insulation covers prevents 80% heat loss and maintain constant inside pipe temperature. These are alternative replacements to asbestos, poly vinyl, rock wool, coated covers or any other conventional aluminium cliding, They eliminate the need to re-insulate the heat generating equipments /hot pipes for routine maintenance or during repairing. These have multi-layer type of construction with acoustic and thermal insulation fills, encapsulated with anti-vibration, heat resistant fabrics and wire reinforcements. These are removable having Closure systems include Velcro, lacing anchors, grommets, belts/straps, capstans and springs. These covers designed as per ASTM standards confirming to MIL STD 769 and API 611 Standards.

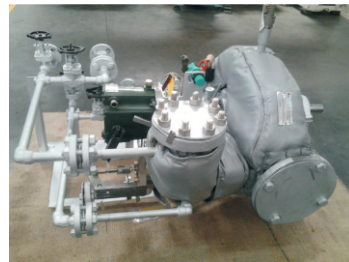
Having 20 years of experience in the field of Thermal Insulations, we have been offering many import substitutes to varieties of Thermal Insulation applications to the Indian Industry and Defence sectors, apart from exports to Germany, UK and UAE thru our OEM partners. At Hi-Tech Energy savings are top priority in reducing the purchasing costs of our customers.

## Benefits :

1. Custom made Multi-layer insulation jackets fit to any complex shape.
2. 100% asbestos free insulation products and environmentally safe.
3. Offers acoustic and thermal insulation, offering 80% heat savings.
4. Easily removable & reusable for periodic inspection, maintenance & repairs, with fastening arrangements.
5. Protects human / workers form burns during operations.
6. Heat shield blocks 90% of heat generated from engines.
7. Controls the under hood temperature in automobiles, protecting cables, plastic parts etc;
8. prevents fire hazards from oil spills, chemicals and corrosion resistant.
9. The complete cover is non flammable ensuring safety to the equipment.
10. Insulation materials are tested as per EN and BS Testing standards,.
11. Can be designed ranging from 60 to 1250°C continuous temperatures.
12. Most economical and easy replacement to any other conventional methods.
13. silica Insulation filler have low thermal conductivity having 0.035 w/m.k-0.045w/m.k



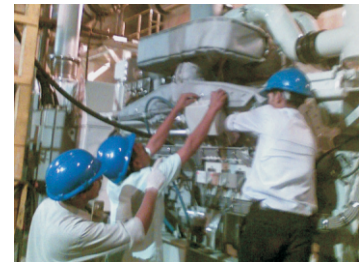
Turbine insulation



Process Turbine Insulation covers



RIC 700 Turbine Insulation



Engine exhaust Insulation

**Applications :** Removable Insulation covers for turbines, exhaust covers, engine covers, turbo charger covers, manifold covers, ship engines, loco Guard insulations for rail engines, removable insulation covers for offshore plat form, thermal wrap blanket for nuclear applications, instrument covers, bellow covers, Engine deflectors, instrument covers, muffler wraps, silencer covers, battery wrappers, plug points, electrical cables, starters, Heat reflective shields, cable and hose covers, man ways, manifold heads etc,.

## REMOVABLE INSULATION COVERS AND BLANKETS :

Item Code	Item Description	Size
RIC-EXT-700	Removable Insulation Cover for exhausts	1000mm x75x 5mtr.Roll
RIC-EXT-1100	Removable Insulation Cover for exhausts	1000mm x75x 5mtr.Roll
RIC-TURB-1100	Removable Insulation Covers for Turbine	as per Drg.
RIC-DG-25	Removable Insulation Covers for DG exhausts	as per Drg.
RIC-SC-700	Removable Insulation Covers for Silencers	as per Drg.

Custom grades are available as per drawing/ specification. Please specify the size, temperature& application along with heat loss areas and process conditions to enable our engineers to offer suitable cost effective products. For more commercial & technical deputation please contact our sales team for further assistance.

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# Energy saving insulation covers

For Oil & Gas, Petro-Chemicals, Cement, Paper, Glass, & Ceramic, Smelter, furnace & Boilers, Polymer & Plastic, Heavy Chemical & Steel Industry.



Header Insulation Cover

Hi-Tech Insulation covers are most superior and proven in service in reducing the heat loss in process equipments. They reduce the heat loss at flange joints, valve steam pipe line units, odd shaped vessels etc, These are totally removable and reusable for routine maintenance or repairs.

These covers have multi-layer type of construction with thermal insulation fills, encapsulated with heat resistant technical fabrics. These are removable having Closure systems include Velcro, lacing anchors, grommets, belts/straps, capstans and springs. These covers meet the specifications of ASTM and API Standards.

These are proven products being supplied to most reputed OEMS in India and also to export markets. We have answers that benefit the OEMS and User departments, ensuring, reliability in the following aspects,



Pump Insulation

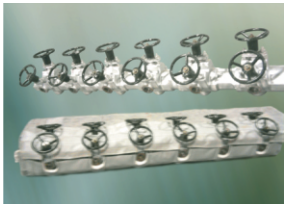
## ADVANTAGES OF ENERGY SAVING INSULATION COVERS

1. Custom made Multi-layer insulation covers fit to any complex shape.
2. These covers are 100% asbestos free insulation products and environmentally safe.
3. prevents fire hazards from oil spills, chemicals and corrosion resistant.
4. Complete cover is non flammable accordingly to EN 532, ensuring safety to the equipment.
5. Reduce heat loss upto 80% from vessels, valves etc;
6. complete cover is designed to with stand temperatures from -33 to 1250°C.
7. Designed as per international standards conforming to ASTM-680.
8. These jackets have low thermal conductivity.
9. Quick removal, reusable and easy installations with hooks, Velcro fastenings, belts etc;
10. These covers are removable type for easy maintenance & periodic inspection.
11. Most economical and easy replacement to any other conventional methods.
12. Energy saving covers are available in standard of 1000mm wide x 5mtr. Rolls.



Valve Covers

Item code	Item Description	Colour	Size
ES-IC-600 ES-IC-1000	Energy Saving Insulation Cover	Grey / Black / Red /Silver	1000mmx25mmthkx 5mtr roll/as per drg.
EP-IC-600 EP-IC-1000	Equipment Insulation Cover	Grey / Black / Red /Silver	1000mmx25mmthkx 5mtr roll/as per drg.



Manifold Insulation Covers for 4,8,12 way valves

Apart from the above referred product line, we offer customized solutions for heat loss problems in arranging our expert to study the heat loss and subsequent solutions for the same.

## APPLICATION INDUSTRIES :

**Power Generating Units :** Turbine Covers, exhaust manifold covers, exhaust pipes, valves, Metal Bellow covers, fabric bellows, Gap Insulation pads, cable protection covers, silencer covers, fabric expansion joints etc.,

**Fertiliser Industries :** Turbine covers, valve covers, steam pipe line insulation, instrument covers, cable and hose protection covers, instrumentation protection covers etc.,

**Chemical, Petrochemical Industries & allied Industries :** Energy saving covers for Valves, flange joints, Heat Exchanger Head covers, steam pipe lines, reactor vessels, Boiler covers, jackets for odd shaped vessels, pressure powered pump package (PPPU) units, Centrifugal pumps, evaporator heads, Reformers areas, heat retention covers, damper covers, condensation manifolds, instruments and controls turbines.

**Steel & Metallurgical Industries :** Cable and hose Protection covers at Blast Furnace, tilting furnace,. Steel making areas, Heat Shield covers and curtains at hot rolling Mills, hydraulic cylinder piston covers, valve covers etc.,

**Polymer & Plastic Industry :** insulation covers for injection moulding, spin beams, polymer filters , extruder lines , blow film liners, electrical heaters, cable covers etc

**Cement Industry :** Turbine units, exhaust pipes, valves, flue gas duct bellows, bellow covers,

**Shipping and Marine Industry :** Engine Exhaust Manifold covers, exhaust pipe lines, valves covers, hot water and steam pipe lines and hose covers.

**Automotive Industry :** silencer covers, hose cover, engine exhaust covers, cable sleeves, turbo covers, heat deflectors

Hi-Tech Guarantees heat savings upto 80% than to the un-insulated equipments. Please give us your specific heat loss areas, along with process conditions to enable our engineers to offer suitable cost effective products. For more technical / commercial details please contact our sales team for assistance.



Removable Insulation for equipment



Energy saving Jackets for reactor vessels



Energy saving heater covers

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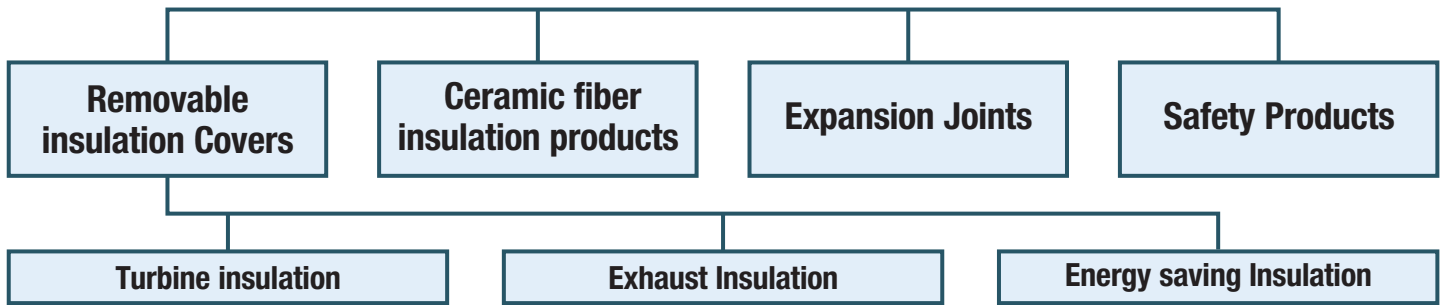
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# PRODUCT DIVISIONS



*Hi-Tech Thermal Insulations pvt ltd., The only Integrated manufacturer and supplier of wide range of Removable Insulation Covers for Turbine & Exhaust Insulation, high temperature technical fabrics, Expansion joints, Energy Saving insulation covers ,ceramic insulation products & Safety Products, covering varieties of industrial applications with an ultimate objective to replace asbestos.*

*HI-TECH over two decades serving to Petrochemicals, Steel, Power, Cement, Nuclear, Heavy Engineering, DG set manufacturers, Automotive, shipbuilding Industry, Defense R&D and many more..... Exports to Gulf, Europe, Malaysia, Russia, South Africa through our OEM Partners,.*

*Hi-Tech backed up by highly qualified professionals, engineers who are expertized in the field of thermal management applications over decades. We at Hi-Tech Thermal, engineered to work for Ultra- high temperature applications upto 2,000° C.*

*At Hi-Tech Research is an ongoing process ..... Not merely developing new products ? But also reducing the "processing and purchasing costs of our customers"*

### **Production Capabilities & Infrastructure :**

*Our comprehensive line and custom fabrication capabilities covers to an area of 15000sq.mtrs. in Navi Mumbai and Kolhapur, can accommodate even the most extreme sizes in the manufacture of varieties of thermal insulation products. The Complete production process is thoroughly screened for consistency in the quality of the product.*

**ISO Certification :** *Our Company updated with latest ISO Certification: ISO 9001: 2008*

**Crisil Rating :** *Our Company is verified by Crisil*

### **Global Energy- Conservation :**

*Realizing the global energy conservation, Hi-Tech not only confined to the supply of thermal insulation products but also offers services in helping the industry control extreme temperature applications, in recommending the appropriate innovative energy saving insulation products to its customers*

### **Authorised Local Representative**



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