

# INSULTEC







Insultec is a worldwide multi-local organization specializing in the design, supply and installation of insulation for major industrial projects.

Insultec has completed insulation, refractory, fireproofing and corrosion protection contracts for major power and petrochemical facilities in over thirty countries located in the Far East, the Middle East, Europe, North and South America and Africa.

Insultec's competitive advantages include:

- worldwide multi-local organization
- highest quality materials
- a world-class installation service
- experienced engineering and support personnel
- competitive pricing



Insultec has successfully undertaken the challenges of working in remote and inaccessible locations and meeting complex specifications under stringent time constraints. Time and again we have demonstrated our ability to complete projects efficiently and cost effectively.



Insultec has achieved a worldwide reputation for excellence based on state-of-the-art engineering, cost effectiveness, and on-time project completion to the highest standards of quality.





The Insultec Group's estimating, procurement, shipping and construction personnel can provide a total insulation service including:

- advice on initial insulation design and specifications
- detailed drawing takeoffs
- comprehensive material calculations
- computerized heat loss and insulation thickness calculations
- worldwide material sourcing and procurement
- competitive freight rates
- preparation of detailed insulation design drawings
- on-site supervision



Insultec's on-site insulation installation service is a full range capability that can be tailored to meet a client's specific requirements at the jobsite: - from providing on-site supervision to taking overall responsibility for all aspects of completing the insulation work including management, supervision, labor, scaffolding, manpower accommodation, fabrication equipment and temporary site facilities.

## **International Expertise and Experience For Superior Engineering Services**

International expertise and depth of experience enable Insultec's engineering team to handle the most complex and challenging insulation projects. We have assisted clients all over the world to meet conditions, specifications and materials requirements unique to their facilities and locations. Our staff of diverse specialists is especially knowledgeable when it comes to handling projects in developing countries.



Areas of technical expertise include:

- power plant insulation and refractories
- cryogenic insulation
- cellular glass insulation
- polyisocyanurate foam
- acoustic insulation

Insultec utilizes the most advanced computer technology and thermal imaging equipment and has developed proprietary software to deliver superior engineering outputs. Our engineers can perform a heat loss analysis and calculations and design insulation systems appropriate for a full range of insulation projects.

Our engineering staff provides the following:

- Analysis and calculations to evaluate heat transfer and calculate the optimal insulation thickness.
- Detailed specifications of materials.
- Detailed take-offs featuring comprehensive computer-generated bills of materials.
- Detailed CAD design drawings showing material specifications and installation procedures.
- Design of precut cladding sheets for power plants.
- Design of the optimal support structure for insulation and cladding
- Wind and roof loading.
- Comprehensive installation plans and manuals.
- On-site supervision and technical advice.
- Energy audits and consultation.

## **Global Access, Competitive Pricing, Expert Shipping, and Quality Control.**

Insultec provides a complete materials management service, including materials take-offs and specifications, research and purchasing, quality control audits and inspections, packing and shipping, detailed documentation and on site supervision for receiving, inspection and storage.

Our engineering staff prepares detailed material take-offs, providing a computer generated itemized bill of materials for each drawing. Our technically experienced procurement specialists locate the best products at the most competitive prices available from Insultec's worldwide network of suppliers and manufacturers. Every supplier used by Insultec is closely audited and inspected for compliance with the highest quality standards.

Insultec ships materials to any location - no matter how remote - using a proven system of technologies. Our time-tested methods of packaging, consolidation and packing, labeling, documentation and inspection ensure maximum efficiency and quality control and minimum freight cost.

Experienced personnel closely supervise every step of the shipping process and conduct quality control inspections. At every stage we provide detailed computer-generated documentation, including multi-lingual packing lists, inspection checklists, bill of lading, quality and insurance certificates, certificates of origin, and invoices. Our staff also takes care of expediting freight forwarding and customs clearance and can arrange local transportation to the job site.

At the job site, Insultec can provide an experienced supervisor to ensure materials received are properly inspected, inventoried and warehoused and provide an on-site technical advisor or supervisor to oversee installation.





### World Class Project Management for On-Time Project Completion

Insultec provides a complete turnkey on-site installation service capable of bringing large complex projects to completion on time and in compliance with the highest standards of quality. Insultec has international depth of experience, particularly with projects in developing countries and where conditions such as remote locations and tight deadlines create special challenges.



Insulation installation often comes at the end of the construction of a new facility, when time pressures are most urgent. Insultec's projects management team is very experienced at implementing the complex planning and coordination necessary to achieve successful installation under these types of conditions. Our personnel are also very familiar with prevailing local conditions in different countries, whether it be an oil refinery in Saudi Arabia, a power plant in Thailand or a petrochemical plant in China.

For on-site installation Insultec will provide:

- A comprehensive installation plan and construction schedule.
- All technical documentation including step-by-step installation manuals, detail design drawings, materials take-offs and specification sheets, shipping and inventory lists, and work schedules.
- An experienced on-site management team.
- Procurement, shipping, inspection and storage on-site of all materials and supplies.
- All necessary tools, fabrication equipment and scaffolding.
- Construction of temporary offices, workshops and warehouses. If required, construction of housing and catering facilities for workers and project management team.
- Training programs for local workers. In some countries the importation of Insultec's own trained labor force of insulation and sheet metal workers.
- Management of compliance with local laws and regulations.

Insultec uses advanced computer technology and highly sophisticated systems of project management and quality control to schedule and track every aspect of an on-site installation. We hold weekly planning meetings and provide detailed status reports throughout the project. More importantly, our systems and personnel can be quickly mobilized to meet unexpected challenges or changes in conditions.





"We have no hesitation in stating that the quality of Insultec's workmanship was of the highest standard and throughout the contract their management and supervisory personnel were co-operative, competent and demonstrated a deep knowledge and experience in the field of thermal insulation"

**VINYTHAI CO., LTD.**

"We Mitsubishi Heavy Industries, hereto express our deepest appreciation and gratitude for your excellent control of quality and scheduling...We hold high esteem for your performance and good cooperation."

**MITSUBISHI HEAVY INDUSTRIES**

"We are pleased to confirm that Insultec completed the shipment of all materials on schedule and arranged for local materials to be delivered to our job site on a "just in time" basis. The engineering work that Insultec performed was detailed, correct and precise. The Superintendents that Insultec provided were experienced and knowledgeable in the insulation of large boilers and were able to ensure that the insulation works were completed on schedule and to a high degree of quality."

**ABB CE**

**INTERNATIONAL  
CHINA INC.**

"...the insulation works were completed on schedule and to a high degree of quality. We are pleased to recommend INSULTEC for performing similar insulation contracts and would have no hesitation in using INSULTEC on our future power plant contracts."

**ABB ASEA BROWN BOVERI**

"It has been a pleasure working with Insultec Inc. over the last ten years and we look forward to working with them in the future. We have no hesitation in recommending Insultec as an experienced insulation contractor for international power plant projects."

**BABCOCK & WILCOX**

"We wish to reiterate our sincere appreciation to INSULTEC for their co-operation, and the professional competence of their project team to perform an outstanding work and maintain the highest quality standard throughout the project. Without any reservation we would recommend INSULTEC as a first rate Insulation Contractor"

**DAELIM INDUSTRIAL CO.,  
LTD.**