

## TIPCHECK: Big Cost Savings and Environmental Credibility – Reducing Energy Waste

Cape offers our customers the ability to assess the efficiency of their existing insulation systems with energy audits carried out by our qualified TIPCHECK Engineers who are trained as BS EN 16247 Energy Auditors.

Energy Managers, Engineers and Plant Managers will receive independent impartial advice on whether their facility energy consumption can be reduced by optimising their thermal insulation systems.

Cape are independent of any insulation manufacturer, giving us the autonomy to work with our customers to select insulation and cladding systems that are fit for purpose. In accordance with plant or facility longevity, the materials offered will be optimised in accordance with the physical environment in which they are being installed.

Cape can specify insulation systems, as bespoke packages to suit our customers' needs. Our Engineers can discuss the pros and cons of the different insulation and cladding materials which are available for your particular asset and environment.

What's the procedure?

### Ask yourself:

- ▶ How much heat energy is my plant losing?
- ▶ Is my insulation performing to its peak?
- ▶ What is the condition of my insulation on piping and equipment?
- ▶ Do I fix this during outage/shutdown, or can I do it now?
- ▶ Should I accept the heat loss and leave it to life expiry of the asset?

### Our insulation services include:

- ▶ Provision and application of thermal and acoustic insulation for industrial applications
- ▶ Insulation provided for: energy conservation, process stabilization and personnel protection
- ▶ Temperature ranges from; minus196°C (cryogenic) up to +800°C (superheated steam)
- ▶ Design services, heat loss analysis, unbiased advice on the best fitting insulation systems to use
- ▶ CUI (corrosion under insulation) mitigation strategies
- ▶ Development of bespoke insulation systems to meet all stakeholders needs
- ▶ Infrared thermography to represent our surveys in a pictorial manner
- ▶ Fabrication and installation of a vast array of cladding materials to suit the local environment
- ▶ Energy Audits (TIPCHECK) for the evaluation of savings and calculation of payback times.
- ▶ Working closely with our customers on FEED, EPC and Asset Integrity and Maintenance Management Projects

**Cape TIPCHECK  
Engineers are certified  
by the European  
Industrial Insulation  
Foundation (EIIIF).**



### Contact us:

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## Totally simplified, the steps are as follows:

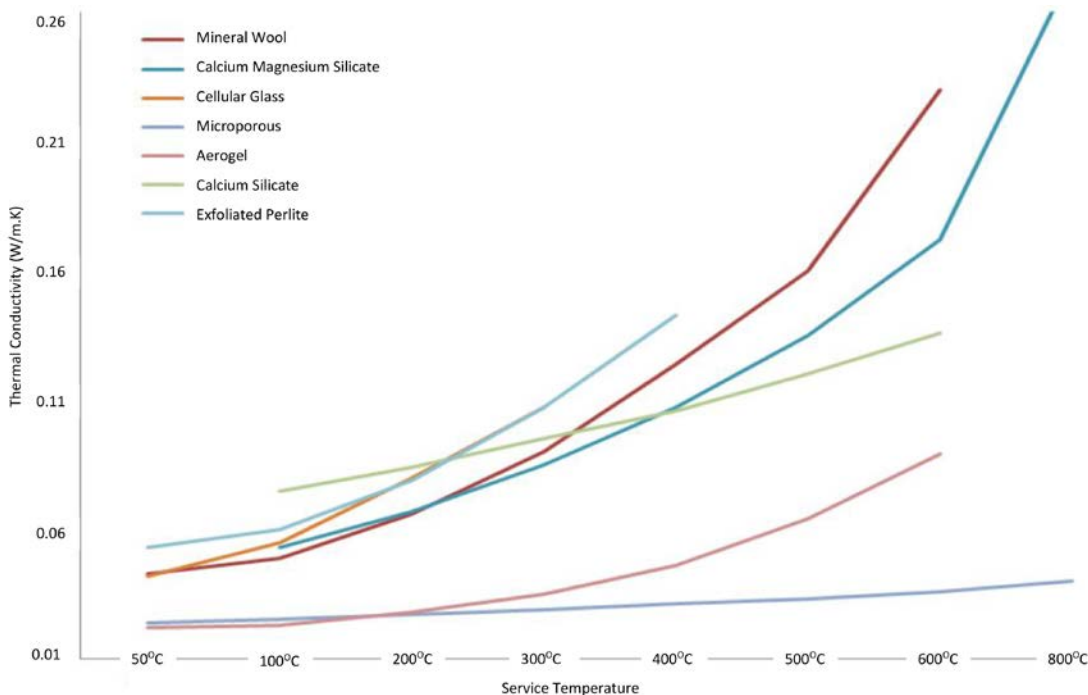
- ▶ Identify the system to be audited – this defines the extent/scope of the survey
- ▶ Collect data – fuel type, temperatures, wind speeds etc.
- ▶ For live plant – site measure, check condition of existing systems
- ▶ Develop estimates with the insulation and cladding materials required
- ▶ Input the information into the TIPCHECK software
- ▶ Produce a report which includes the economic and environmental benefits of good insulation practices
- ▶ Present the results to the Customer – we don't simply email the results

Cape can also address client energy efficiency or greenhouse gas (GHG) emission concerns by making recommendations at the design stage of an asset or facility.

Options can be offered to suit any given environment, with materials that are readily available for the project and in the geographical locations where the component parts are being built.

In this offering Cape should naturally specify the most appropriate CUI (corrosion under insulation) mitigation measures. In doing such, Cape can possibly help the customer with budgeting and where such a budget could best be spent for the asset would be established at this phase of the project.

*Thermal Conductivity Curves for Various Insulation Materials: demonstrates varying suitability at different service temperatures*



**Payback times typically  
less than 12 months!**

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