

INSULATION JUST GOT BETTER

# Armacell in Action

In their pursuit for sustainability and carbon footprint reduction, a major energy operator in Indonesia selected ArmaGel® HT as the insulation solution for its facility. This equipment insulation decision helped them to reduce heat loss, improve temperature stability of their super-high-pressure steam line and enhance personnel safety in the facility. **Armacell. Making a difference around the world.**

[www.armacell.com.sg](http://www.armacell.com.sg)



Achieved  
**63%**  
heat loss  
savings



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MAKING A DIFFERENCE AROUND THE WORLD

# 63% HEAT LOSS SAVINGS WITH ARMAGEL INSULATION

A major energy operator in Indonesia selected ArmaGel HT, an aerogel-based insulation material to insulate the steam pipelines of their facility. In doing so, the insulation system could potentially deliver annual energy savings of 528 gigajoules (GJ), which translates to a 63 percent reduction in energy consumption versus previous insulation systems.

In addition to energy savings, the use of ArmaGel HT insulation led to a tangible reduction in carbon dioxide (CO<sub>2</sub>) emissions. The 528 GJ potential annual energy saving corresponds to a decrease in CO<sub>2</sub> emissions by 50<sup>1</sup> tonnes. This substantial reduction in greenhouse gas emissions contributes significantly to their commitment to combat climate change and reduce their facility's environmental footprint.

Plus, the ArmaGel HT insulation system improved safety measures. By effectively reducing the insulation surface temperature to a safe touch temperature of 60°C, the energy operator enhanced personnel protection and mitigated the risk of workplace accidents - a testament of their dedication to prioritising the well-being and safety of their employees.

The simple decision to use ArmaGel HT insulation in their facility enabled the energy operator to achieve substantial energy savings, reduce carbon emissions and enhance personnel safety within their operations. Plus, this solution can be easily replicated to other production sites.

<sup>1</sup> Based on the assumption of coal as the fuel source.

- ✓ ENERGY SAVINGS
- ✓ CO<sub>2</sub> EMISSION REDUCTION
- ✓ SAFETY ENHANCEMENT

**50 TONNES OF CO<sub>2</sub> SAVINGS IS EQUIVALENT TO DRIVING 25 GASOLINE VEHICLES FOR ONE YEAR.**

## INSULATION JUST GOT BETTER.

# ArmaGel HT

ArmaGel HT is a flexible aerogel insulation blanket suitable for high temperature applications with hot conditions up to 650 °C (1200 °F). It offers up to five times better thermal performance than competing insulation materials and reliably mitigates the risk of corrosion under insulation.



### // Increase coverage

New sizes and more choice. 5, 10, 15, and 20 mm thicknesses available today. A thicker layer gives more insulation coverage per man hour than conventional aerogel insulation.

### // Reduce labour cost

Cuts easily and conforms to preferred shapes, with less wastage, making it the right fit for installers.

### // Reduce downtime

Product removal is made simple, reducing both downtime and the need to purchase replacement insulation during regular maintenance cycles.

### // Superior thermal performance

Offering up to 5 times superior thermal performance versus like-for-like competing insulation products.

### // Hydrophobic and breathable

Repels liquid water, but allows vapour to escape, helping to keep equipment drier for longer.

### // Ultra-thin and ultra-light

Equal thermal performance at a fraction of the thickness. Improved handling and easier transportation.

### // Versatile

More flexibility than traditional aerogel insulation materials.

### // CUI defence

Hydrophobicity and breathability enhance protection against corrosion under insulation (CUI).



## // ACHIEVE BEYOND BETTER WITH ARMACELL

According to a report by McKinsey, insulation is the most effective and least expensive method of reducing CO<sub>2</sub> emissions. As the inventors of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal, acoustic and mechanical solutions that create sustainable value for its customers. Armacell's vision has always been to provide innovative technical insulation solutions to conserve energy and make a difference around the world. With ArmaGel, that vision is now a reality.

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## ABOUT ARMACELL

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As the inventor of flexible foam for equipment insulation and a leading provider of engineered foams, Armacell develops innovative and safe thermal and mechanical solutions that create sustainable value for its customers. Armacell's products significantly contribute to global energy efficiency making a difference around the world every day. With more than 3,300 employees and 25 production plants in 19 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for acoustic and lightweight applications, recycled PET products, next-generation aerogel technology and passive fire protection systems.

For product information, please visit:  
[www.armacell.com](http://www.armacell.com)

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