

INVEST IN BETTER

Armacell Energy

The dedicated energy division of Armacell provides thermal and acoustic insulation systems designed to deliver performance advantage, project, operational and energy savings, asset integrity and safety in the harshest of environments. **At Armacell, we help you succeed.**

www.armacell.com/energy



 **armacell**[®]
MAKING A DIFFERENCE AROUND THE WORLD

INVEST IN BETTER

Armacell Energy

At Armacell, our dedicated energy division provides combined acoustic and thermal insulation systems designed specifically for the demanding onshore and offshore environments. Our team of technical experts support operators, engineers and contractors in optimising the value gained from using our insulation systems. Our team is ready to help you design and install your insulation systems, improving site productivity and installed quality.

Invest in better with Armacell.

Innovation



Combined systems



Mitigate CUI



WE FOCUS ON DELIVERING SUSTAINABLE VALUE

// Performance advantage

Armacell Energy innovates in new technologies and focuses on systems that deliver superior technical performance.

// Project, operational and energy savings

Flexible, lighter and thinner systems. Easy maintenance. Connecting your business with lower lifecycle costs.

// Asset integrity and safety

Mitigate the spread of corrosion under insulation (CUI)* complemented by best-in-class noise reduction.

*Confirmed by InnCoa and TNO/Endures

PERFORMANCE ADVANTAGE

We innovate in new technologies and focus on systems that deliver **superior technical performance**.

UP TO
50%
LIGHTER



UP TO
30%
INSTALLED
COST
SAVINGS

UP TO
80%
THINNER

YOUR BENEFITS

// **Designed to deliver**

We have developed a dedicated range of industrial materials meeting the demanding technical performance requirements of the energy sector.

// **Lifetime performance**

Resistance to water and water vapour ingress, plus optimal system design delivers long-term predictable thermal and acoustic stability and enhanced process performance.

// **Two in one**

Our insulation materials can combine thermal and acoustic performance

and can also be engineered with traditional insulation materials for specific demands.

// **Optimal thermal performance**

Fewer joints and seams and closer fitting to complex parts and protrusions than rigid materials making the actual heat loss/gain of ArmaFlex/ArmaGel considerably better than that of rigid materials.

// **Resistant to damage**

Flexible materials that do not crack, break or crumble are resistant to vibration and mechanical abuse.

// **Integrated vapour barrier**

ArmaFlex and the Arma-Chek covering systems are flexible and resilient to both water and water vapour ingress.

// **Training and technical support**

Our team of technical experts support operators, engineers and contractors in optimising the value gained from using our insulation systems. We can offer a reliable technical service at every stage of your project.

PROJECT, OPERATIONS AND ENNE

Flexible, thinner and lighter systems. Easy maintenance.

Connecting your business with lower lifecycle costs.



- 1 **ArmaGel** Equal thermal performance at a fraction of the thickness.
- 2 **ArmaSound**® A unique combined thermal and acoustic insulation system.
- 3 **Arma-Chek**® Flexible covering providing excellent mechanical protection.
- 4 **ArmaFlex**® Resistant to on-site damage and handling, reducing on-site waste.

ENERGY SAVINGS



YOUR BENEFITS

// Reduce space and weight (acoustic)

Lightweight and up to 80% reduced thickness for improved space efficiency and a smaller plant footprint, reduced supporting steel work and weight. Less cladding materials are required with lower installation costs.

// Reduce space and weight (thermal)

Lightweight and up to 40% reduced thickness for improved space

efficiency, a smaller plant footprint and reduced supporting steel work. Less cladding materials are required with lower installation costs.

// Straightforward installation

Our flexible insulation materials are easy and quick to install and fabricate, leading to reduced installation time and costs. They also fit better reducing rework and wastage.

// Reduce cost / increase ROI

Heat loss can be reduced up to 20

times on high temperature applications. This means a fast payback and reduced operating costs.

// Easy inspection and maintenance

Simple methods and non-destructive inspection can save time and money.

// Supply chain benefits

Materials can be pre-fabricated at the jobsite, unlike traditional systems and materials, leading to reduced SKUs and inventory for both projects and ongoing operations.

ASSET INTEGRITY AND SAFETY

Mitigate the spread of corrosion under insulation.
Best-in class noise reduction.



- 1 Protect workers and the environment from noise** ArmaFlex and ArmaGel based ArmaSound Industrial Systems offers enhanced protection for workers and the surrounding environment from plant noise.
- 2 Reduce CUI risk** Our closed-cell ArmaFlex and hydrophobic ArmaGel insulation materials are proven to reduce the onset and spread of CUI.
- 3 Prevent moisture ingress** We select our materials and design our systems to create a tortuous path for water - this minimises the risk of it travelling from the outside of the pipe to the surface, reducing the risks of CUI.
- 4 Reduce risk of water trapped at the pipe surface** Flexible materials and application techniques means a better fit around complex parts and no voids between insulation and pipe where water could otherwise collect with rigid or less flexible materials.
- 5 Eliminate galvanic corrosion** Systems qualified with non-metallic jacketing eliminates the opportunity for galvanic corrosion.

All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. It is the customer's responsibility to verify if the product is suitable for the intended application. The responsibility for professional and correct installation and compliance with relevant regulations and project specification lies with the customer. Armacell takes every precaution to ensure the accuracy of the data provided in this document and all statements, technical information and recommendations contained within are believed to be correct at the time of publication. By ordering/receiving product you accept the **Armacell General Terms and Conditions of Sale** applicable in the region. Please request a copy if you have not received these.

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ABOUT ARMACELL

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 products significantly contribute to global energy efficiency making a difference around the world every day. With 3,100 employees and 24 production plants in 16 countries, the company operates two main businesses, Advanced Insulation and Engineered Foams. Armacell focuses on insulation materials for technical equipment, high-performance foams for high-tech and lightweight applications and next generation aerogel blanket technology.

For more information, please visit:
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