

THERMAL, ACOUSTIC AND FIRE PROTECTION

Industrial Facilities

Insulating technical equipment is one of the simplest and most efficient measures to save energy in industrial processes. Armacell's best-in-class insulation systems ensure process stability, save energy, help to cut operating costs, reduce sound emissions and the risk of corrosion. Our thermal, acoustic, mechanical and fire protection solutions contribute towards a safer, more efficient and more sustainable industry.

Freeze energy costs and insulate your bottom line.

www.armacell.com



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

SOLUTIONS ENABLING ENERGY SAVINGS.

We are the inventors of flexible foams for equipment insulation and a leading provider of engineered foams. Our lightweight thermal, acoustic and mechanical solutions create sustainable value for our customers. Innovation and entrepreneurship are an integral part of our DNA. We drive industry-leading solutions and aspire to launch new technologies using alternative resources or natural feedstock. Day in day out, our products significantly contribute to global energy efficiency and make a difference around the world.

In meeting the challenges of megatrends, such as energy efficiency, noise control, lightweighting, the globalisation of food and pharmaceutical supplies, our product solutions stand out in terms of functionality and ease of installation.

Armacell. Making a difference around the world.



POWERING SUSTAINABILITY



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The European Green Deal (EGD) provides for a mandatory reduction in greenhouse gas emissions of 55 percent by 2030 and increases the pressure on industry to take efficient measures to cut CO₂ emissions. According to recent studies by the European Industrial Insulation Foundation (Eiif), as much as 10 percent of the necessary CO₂ savings can be achieved by improving insulation or replacing damaged insulation.

Insulating process equipment is one of the simplest and most efficient measures to save energy in industry. Our insulation solutions reduce energy costs for the operators and tackle climate change by preventing CO₂ emissions. They ensure rapid amortisation and minimise the risk of downtime due to unplanned maintenance work. Even refurbishing while the facility remains operational is no sweat with our easy-to-install solutions.

PERFORMANCE, SAVINGS AND SAFETY

The demands made of industrial equipment insulation are diverse as they span different industries such as chemicals, pharmaceuticals, refineries and power generation as well as, food & beverage, textiles, semiconductor and automotive plants. However, stability and reliability are key, independent of the industry, as unscheduled downtime cannot be tolerated.

While the core purpose of insulation remains the same – performance and energy efficiency – the differences in operating conditions result in varying demands and the consideration of various insulation systems. Noise protection, extreme operating temperatures, mitigation of corrosion under insulation (CUI), mechanical protection, cleanroom environments and fire safety are key requirements which can only be fulfilled with innovative insulation systems.



PROCESS STABILITY. KEEPING EQUIPMENT RUNNING.

Technical insulation keeps operations running, increases the efficiency of industrial processes and protects your employees.



© Daniel Schwarz/Miel



Wenwei Holztrattner
Project Manager at the
insulation firm Batimat

“Our core business is consultation, planning and execution of technical insulation in the food, beverage and chemical industry. We have been relying on Armacell’s technical insulation materials in our projects for many years. Quality and service are exactly right.”

FOOD AND BEVERAGE

MILEI (Leutkirch, Germany)

For almost five decades, MILEI in Leutkirch in the south of Germany has been making products from milk and whey. The new MILEI 2.0 building provides the company with one of the world’s most modern facilities for producing functional, high-quality derivatives from milk and whey for the international food industry.

To insulate the process and fresh-water pipes in the new building, the insulation firm Batimat installed around 13,000 m AF/ArmaFlex® tubes and 5,000 m² ArmaFlex sheets as well as ArmaFix® pipe supports.

AF/ArmaFlex and ArmaFix AF

STABLE
PROCESSES
ENSURE HIGH
PRODUCTIVITY



PROCESS STABILITY



The most important aspect when planning industrial equipment is the production process itself. Technical insulation is crucial for the process to run correctly. It ensures that the liquids and gases in the pipes and vessels remain within the defined tolerances (temperature, viscosity, pressure etc.). The temperature not only affects production stability and efficiency, it is also decisive for the quality of the products.

OUR INSULATION SOLUTIONS

Insulating process equipment with ArmaFlex and ArmaGel® ensures that the plant functions reliably in the long term and increases its efficiency. In addition, our insulation materials require less maintenance, ensure low lifetime operating costs, and can extend the service life of mechanical equipment.

ArmaFlex and ArmaGel have excellent thermal insulation behaviour. Our ArmaGel products deliver up to five times higher thermal efficiency than traditional insulation materials, meaning that the required or desired insulation values can be achieved with extremely thin layers.

In order to prevent the risk of burns, accessible



plant components must be insulated to ensure that their surface temperature does

not exceed 60 °C.



ArmaGel provides high insulation performance at a fraction of the thickness of traditional insulation materials.



ArmaFlex is a highly flexible, closed-cell insulation material with outstanding thermal insulation behaviour.

ENERGY EFFICIENCY. REDUCE COSTS AND CO₂.

Insulating technical equipment is one of the simplest and most efficient measures to save energy and reduce CO₂ emissions in industry.



Annual
energy savings of
14 MTOE
with industrial
insulation

Equivalent to the
energy consumption of
10 million
European
households

WOOD PROCESSING

Pfleiderer plant in Novgorod, Russia.

In order to protect the production plant in the particleboard factory from unnecessary energy losses, plant components located outdoors were retrofitted with our precoated Arma-Chek Silver insulation. This significantly reduced the energy consumption of the drum dryers and other components. The 2-in-1 solution can be installed much faster than other systems - and time was of the essence in this demanding project.

Arma-Chek® Silver



Although industrial equipment offers huge potential for saving energy, there is no legal requirement for a plant to do so. As the European Industrial Insulation Foundation (Eiif) has proven,

40 million tonnes of CO₂ could be saved throughout Europe every year if equipment was insulated according to VDI 4610, Class C. Realising this enormous energy-saving potential in industry would lower energy consumption by around 480 PJ, saving costs amounting to some 3.5 billion euros and reducing CO₂ emissions by 49 Mt.



**ENERGY
EFFICIENCY**



**LOW TOTAL
INSTALLED COSTS**

OUR ENERGY-SAVING SOLUTIONS

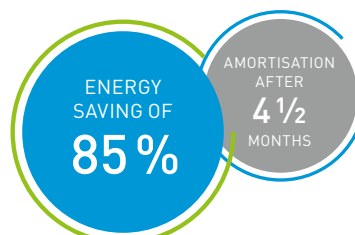
Our insulation solutions enable energy savings at comparatively low costs. Investments are generally recouped in less than a year and companies benefit from substantial energy- and cost-savings in the long term.

Highly profitable investment

Here is an example of the savings potential of a tank (diameter: 4 m, height: 16.5 m) with a medium temperature of 145 °C and an average ambient temperature of 10 °C: By insulating the full surface (50 mm HT/ArmaFlex and Arma-Chek R covering), 85 percent of energy can be saved compared to an insulation thickness of 5 mm. The costs would be recouped after just 4 ½ months. No other energy-saving measure pays off so quickly.

ArmaFlex

saves 140 times more energy than is required for its production, according to an independent life-cycle analysis. No other energy-saving measure pays off as fast.



PROTECTION AGAINST CORROSION UNDER INSULATION (CUI).

Corrosion costs the world economy around 3.4 percent of the global GDP annually. That's 2.5 trillion US dollars.



© KNPC

REFINERY

KNPC Al-Zour refinery (Kuwait)

When completed, the Al-Zour refinery will be one of the largest in the world. Latest technology will ensure that strict environmental regulations are met to protect the local surroundings while producing environmentally friendly products for global markets. ArmaFlex Class 0 insulation on plant components reduces energy losses, prevents condensation, and mitigates the risk of CUI. The ArmaFlex Protect passive fire protection inhibits the spread of fire and smoke to adjacent parts of the building.

ArmaFlex Class 0 and ArmaFlex Protect



CONDENSATION
CONTROL



MITIGATES
CUI



Some 40 percent of the world's steel production is used to replace parts destroyed by corrosion. In Germany alone, corrosion destroys technology and infrastructure worth 75 billion euros every year. Oil and gas industries are not the only ones affected. Chemical,

pharmaceutical and food industries also suffer damage amounting to billions of euros annually. CUI is particularly insidious: if corrosion processes occur hidden beneath the insulation, they are often only noticed when extensive damage has already taken place. The choice of material determines whether the insulation minimises the risk of condensation and corrosion or favours corrosion processes.

OUR SOLUTIONS

Our ArmaFlex and ArmaGel insulation materials were tested by InnCoa (Neustadt/Donau, Germany), an institute which is specialised in corrosion testing, and shown to offer an excellent degree of corrosion protection.

ArmaGel's contribution to minimising the occurrence and spread of CUI was recently confirmed in a test carried out by the National Association of Corrosion Engineers (NACE) at the Southwest Research Institute (SwRI, San Antonio, Texas, USA).

ArmaGel

is a hydrophobic (water-repellent) and breathable aerogel insulation.



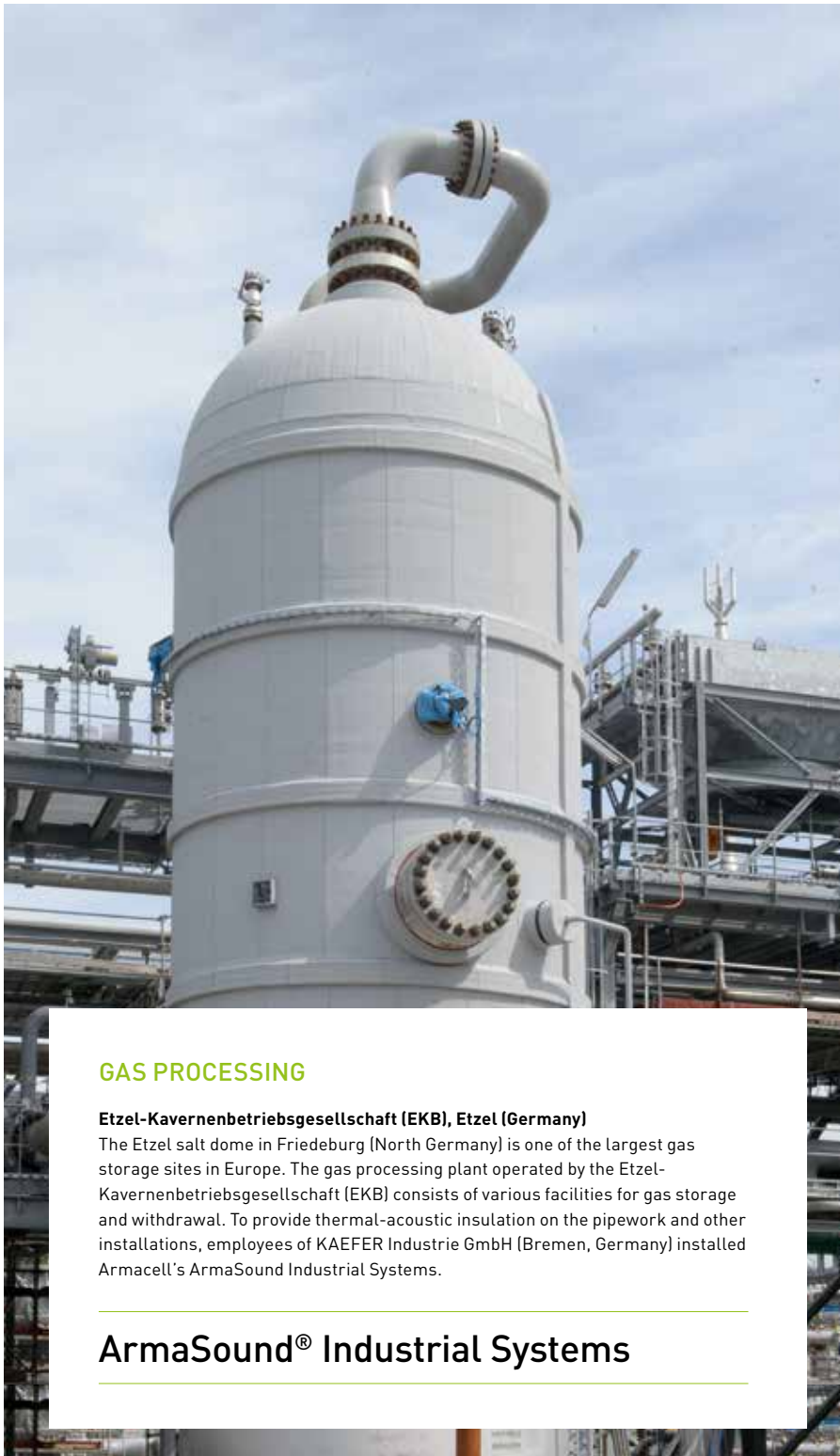
ArmaFlex

is a closed-cell elastomeric foam with an integrated vapour barrier. Its high resistance to water vapour transmission prevents condensation forming on the surface of equipment and minimises moisture penetration into the insulation material.



SOUND INSULATION. A QUIETER ENVIRONMENT.

Compressors, pumps, motors, fans and valves generate considerable noise that is propagated through pipes.



Reinhard Müller
Project Manager at
KAEFER Industrie

“By installing the closed-cell ArmaFlex material and the non-metallic Arma-Chek cladding we were able to prevent the risk of corrosion under insulation (CUI). The ArmaSound Industrial Systems also have the great advantage of being quick and easy to install.”

GAS PROCESSING

Etzel-Kavernenbetriebsgesellschaft (EKB), Etzel (Germany)

The Etzel salt dome in Friedeburg (North Germany) is one of the largest gas storage sites in Europe. The gas processing plant operated by the Etzel-Kavernenbetriebsgesellschaft (EKB) consists of various facilities for gas storage and withdrawal. To provide thermal-acoustic insulation on the pipework and other installations, employees of KAEFER Industrie GmbH (Bremen, Germany) installed Armacell's ArmaSound Industrial Systems.

ArmaSound® Industrial Systems





NOISE PROTECTION



SOUND ABSORPTION



TRANSMISSION LOSS



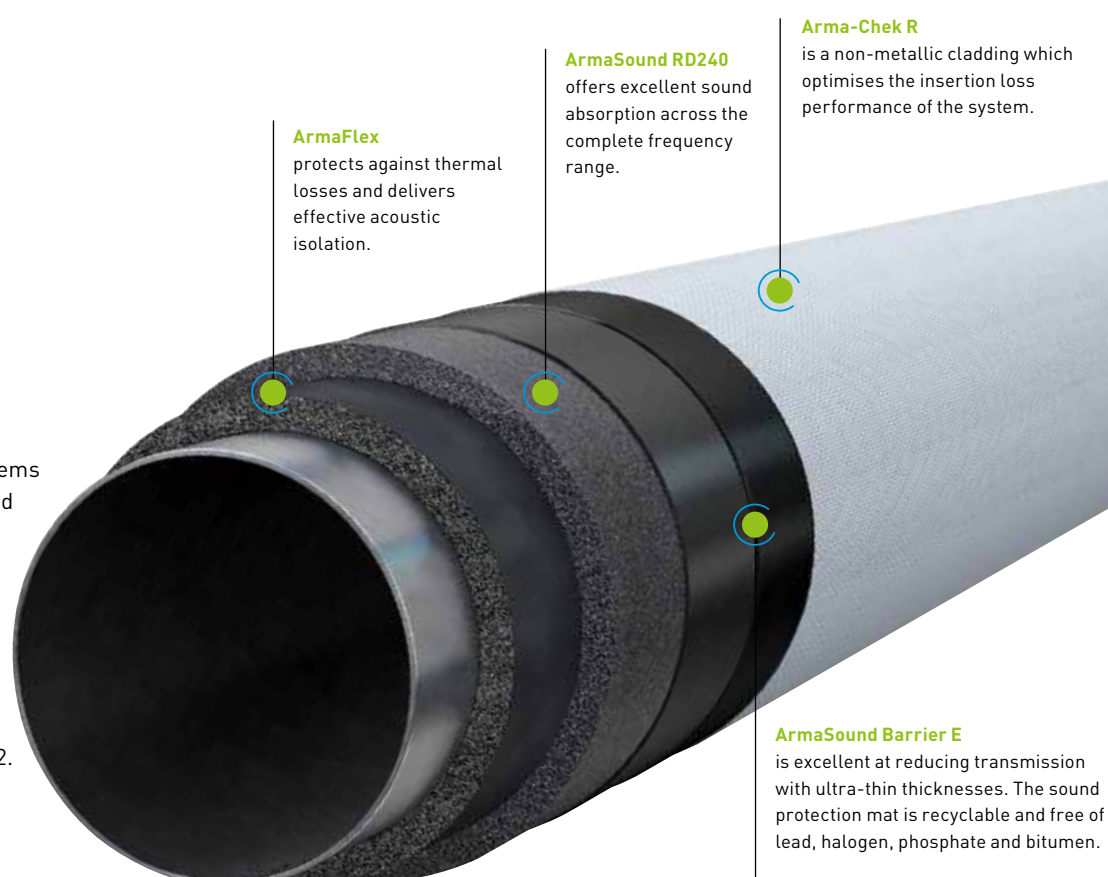
High noise levels, which can occur due to unprotected or inadequately insulated equipment, are not just annoying for employees, they can also be a health hazard. Noise

increases the risk of injuries at work and leads to a decline in concentration and individual performance.

THERMAL-ACOUSTIC SOLUTIONS

By combining acoustic and thermal insulation in a modular solution, ArmaSound Industrial Systems offer innovative sound protection constructions for a wide range of requirements. The systems allow you to combine various thermal (ArmaFlex/ArmaGel) and acoustic (ArmaSound) insulation materials and cladding materials (Arma-Chek R, Okabell® or glass-fibre reinforced plastic).

Because of the thinner insulation thicknesses, they are lighter and more space efficient than traditional materials and need less complicated and lighter supporting structures. Depending on the specific requirements, our ArmaSound sound absorption foams and EVA/EPM mass-loaded barriers can also be installed as a stand-alone solution.



ArmaSound Industrial Systems have been tested by renowned institutes and meet or exceed the requirements of the key noise control standards such as ISO 15665 classes A to C, class D of the Shell specification DEP 31.46.00.31, NORSOK R-004 (M-004) classes 6, 7 and 8 and ASTM E 1222.

CLADDINGS. PROTECT YOUR EQUIPMENT.

Technical insulation materials are clad to provide protection against mechanical impact, moisture, dirt, oil or chemicals.



Philipp Knierzinger
Managing Director of the insulation
firm responsible for the project

“Especially in production areas where space is at a premium, Arma-Chek Silver is an ideal solution. Using the 2-in-1 product allowed us to save a great deal of time – a huge benefit when you’re on such a tight schedule. And the result looks really good too.”

TEXTILE

Lenzing lyocell fibre plant, Lenzing (Austria)

With an annual capacity of 67,000 tonnes the Lenzing Groeps’s new lyocell fibre plant is four times as big as previous facilities and was constructed in record time. The pipe- and ductwork of the complex air-handling systems had to be insulated on a very tight schedule. Unlike conventional insulation materials and claddings, Arma-Chek Silver can be installed in one work step. This allows considerable time-savings.

Arma-Chek Silver



MECHANICAL PROTECTION



ONE-STEP SOLUTION



On equipment located outdoors, claddings and coatings provide protection against UV-rays, weathering and the increased risk of corrosion. In addition, they facilitate cleaning, which is paramount for installations in hygiene-critical areas. Alongside sheet metal and stucco aluminium or PVC foils, alternative solutions made of flexible woven coverings or caoutchouc have become popular.

Alongside sheet metal and stucco aluminium or PVC foils, alternative solutions made of flexible woven coverings or caoutchouc have become popular.

CLADDINGS AND 2-IN-1 SOLUTIONS

Arma-Chek Silver, Arma-Chek D and IMO-certified Arma-Chek Juna

precovered, elastomeric insulation materials, which are installed in one work step, enabling significant time-, cost- and space-savings. When these much lighter coverings are used, it is not necessary to provide supporting and load-bearing structures, which are often needed for metal jackets.



Okabell

metal jackets are fabricated in various types of metal and design through to custom-made constructions. Electronically controlled production lines guarantee that the pipes, elbows, caps and end discs are 100 percent accurate to size.



Arma-Chek R

is a non-metallic caoutchouc based cladding which retains flexibility and mitigates the risk of corrosion under insulation (CUI).



EXTREME TEMPERATURES. THE HIGHEST DEMANDS.

Industrial processes often require extreme temperatures.



© NIS GAZPROM NEFT

REFINERY

NIS Pančevo refinery, Serbia

The Pancevo Refinery has been in operation since 1968 and is now one of the best-equipped plants in South-East Europe. The refinery belongs to Naftna Industrija Srbije (NIS), a Serbian company with its majority stake held by Russia's Gazprom Neft. The plant produces enough petroleum products both to meet the full demand of the Serbian market and to export throughout the Balkans. In 2020, the refinery replaced 1.5 kilometres of its 420 °C steam pipelines to supply steam to the new TETO Pancevo power plant. This section of the pipeline has to withstand extremely challenging operating conditions, so the company opted for the new-generation aerogel insulation by Armacell.

ArmaGel HT



LOW
TEMPERATURE



HIGH
TEMPERATURE



Today's chemical industry demands occupational safety, state-of-the-art thermal and acoustic solutions and a complete portfolio of cryogenic, dual-temperature and high-temperature solutions. For example,

did you know a typical day can see gases such as liquid natural gas (LNG), nitrogen, helium, oxygen and hydrogen being stored or transported at temperatures as low as -200°C ?

SOLUTIONS FOR EXTREME TEMPERATURES



HT/ArmaFlex

High-temperature resistant elastomeric insulation for medium temperatures up to $+150^{\circ}\text{C}$.

ArmaGel HT

Next-generation aerogel insulation for pipework and equipment with an operating temperature of up to $+650^{\circ}\text{C}$.



ArmaGel DT

Aerogel insulation material for low and dual-temperatures down to -196°C .

CLEANROOM. CLEAN AND HYGIENIC PRODUCTION.

Hygiene and cleanliness are paramount in many process industries.



PHARMACEUTICAL

Fresenius Kabi Labesfal S.A., Santiago de Besteiros (Portugal)

Labesfal S.A. is one of the top five generics producers in Portugal and since 2005 has been part of the German Fresenius Kabi group. To prevent products being contaminated, the construction materials used had to meet the stringent requirements for cleanroom technology. The air-conditioning ducts, ventilation pipes and filter boxes were insulated with ArmaFlex Ultima, which is based on Armacell's unique Armaprene technology.

ArmaFlex Ultima



GMP-conform cleanrooms are standard in the pharmaceutical industry, medical and biotechnology and are also used in the food, semi-conductor, automotive and aerospace sector. In these industries it is crucial to ensure the lowest possible

levels of contamination. Ventilation and air-conditioning technology ensures that contamination is removed from the air either through a turbulent dilution flow or a low-turbulence displacement flow (laminar flow). The number of particles is controlled via the air flow, air humidity, air pressure and room temperature.



CLEANROOM



PROTECTION AGAINST MICROORGANISMS

OUR SOLUTIONS FOR CLEANROOMS

ArmaFlex products are dust- and fibre-free and provide protection against microorganisms. It is much more difficult for microbes to settle on the smooth, non-porous surface of the elastomeric insulation material than on an open-cell mineral fibre product.

Because of their closed-cell structure and high resistance to water vapour transmission, our ArmaFlex insulation materials ensure reliable protection against condensation and moisture penetration.

Our **dust- and fibre-free insulation** protects against micro-organisms

AF/ArmaFlex and SH/ArmaFlex are equipped with MICROBAN®. These antimicrobial additives offer proactive protection against harmful bacteria, mould and mildew.



FIRE PROTECTION. THE TOP PRIORITY.

The real risk is not the fire but the consequential damage.



© Axpo



Karl Podhradsky
Overall Project Manager
at ENGIE Services AG Zurich

“NH/ArmaFlex was installed on the cold installations. This meant that we could rule out the risk of aggressive substances forming in a fire and damaging the equipment. All penetrations were insulated with ArmaFlex Protect and sealed off in line with the regulations of the fire authorities.”

POWER GENERATION

Linth-Limmern pumped-storage power plant, Switzerland

The new pumped-storage plant increases the performance of Linth-Limmern power stations many times over. At the heart of the mega project are the caverns which were blasted out of the solid rock. ENGIE Services AG from Zurich used halogen-free NH/ArmaFlex on the refrigeration equipment and ArmaFlex Protect for fire penetrations in walls and ceilings.

NH/ArmaFlex and ArmaFlex Protect



Every year, fires destroy industrial assets worth billions. In Europe alone, they account for property damage amounting to 126 billion euros. Fire gases often cause greater damage than the fire itself. In major

incidents, the losses due to soot and corrosive gases make up over 50 percent of the total costs. In addition, there are often significant costs as a result of operational downtime.



LOW SMOKE DENSITY IN A FIRE



FIRE PROTECTION

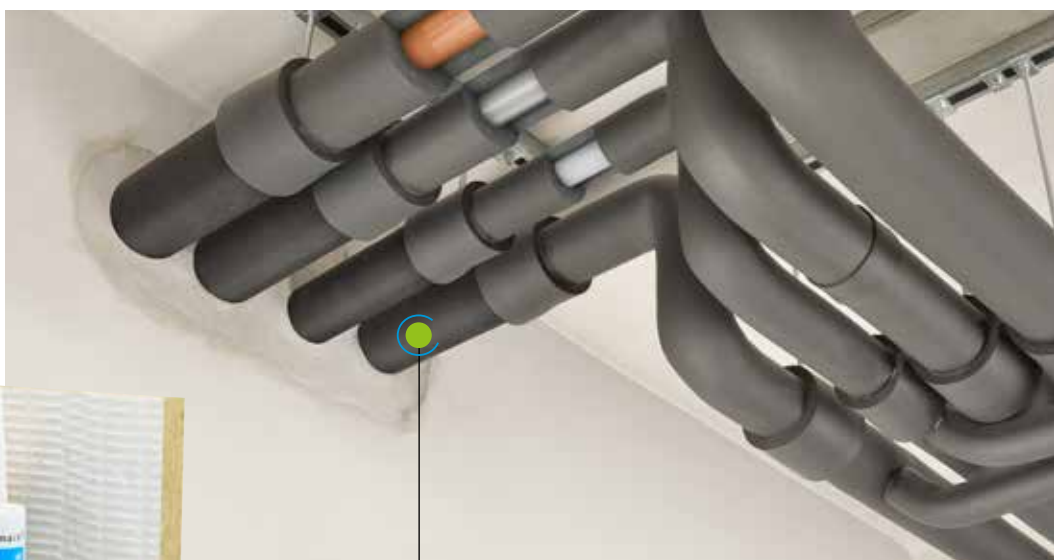
OUR FIRE PROTECTION SOLUTIONS

In a fire, halogen-free NH/ArmaFlex releases no corrosive gases which could form aggressive acids in combination with fire-fighting water. ArmaFlex Ultima is B₁-s1,d0 classified and develops 10 times less smoke than traditional elastomeric products.

Our fire protection barrier ArmaFlex Protect and the ArmaProtect™ System products have intumescent and ablative components which prevent fire spreading. The highly flexible ArmaFlex Protect also ensures effective thermal insulation and reliable condensation control.

ArmaProtect Systems

Effective and reliable passive fire protection solutions for nearly all types of services.



ArmaFlex Protect

The highly flexible fire protection barrier ensures effective thermal insulation and reliable condensation control.



LONG-TERM RELIABILITY. SAFEGUARDING OPERATION.

Production downtime is the greatest business risk,
no matter what the industry.



Udo Dohlen

Owner and Managing Director of the
insulation firm which carried out the work

“No other insulation material can be installed as simply, cleanly and reliably as ArmaFlex. We have been using the products very successfully for over 20 years. Armacell’s system solutions ensure that process equipment can be operated reliably for years to come.”

FOOD AND BEVERAGE

Lindt (Aachen, Germany)

The chocolate factory in Aachen is the largest location of the international Lindt & Sprüngli Group and stands for growth. Whether for expanding production, renovating existing facilities or currently constructing a new refrigerated high-bay warehouse, the Lindt company has relied on cold insulation materials and passive fire protection solutions from Armacell for over 15 years.

**AF/ArmaFlex, ArmaFix AF, HT/ArmaFlex
SH/ArmaFlex, ArmaFlex Protect, Okabell**



Just-in-time production, reducing stock levels and international supply chains mean that disruptions have far-reaching consequences and can threaten a company's livelihood. The COVID-19

pandemic has shown the fragility and growing vulnerability of our globalised and connected world.



LONG-TERM SAFE OPERATION

OUR SYSTEM SOLUTIONS

If condensation forms on technical equipment, the consequences are far-reaching. Mould, corrosion, water dripping from suspended ceilings or downtime due to unscheduled maintenance work can soon result in enormous costs for industrial companies.

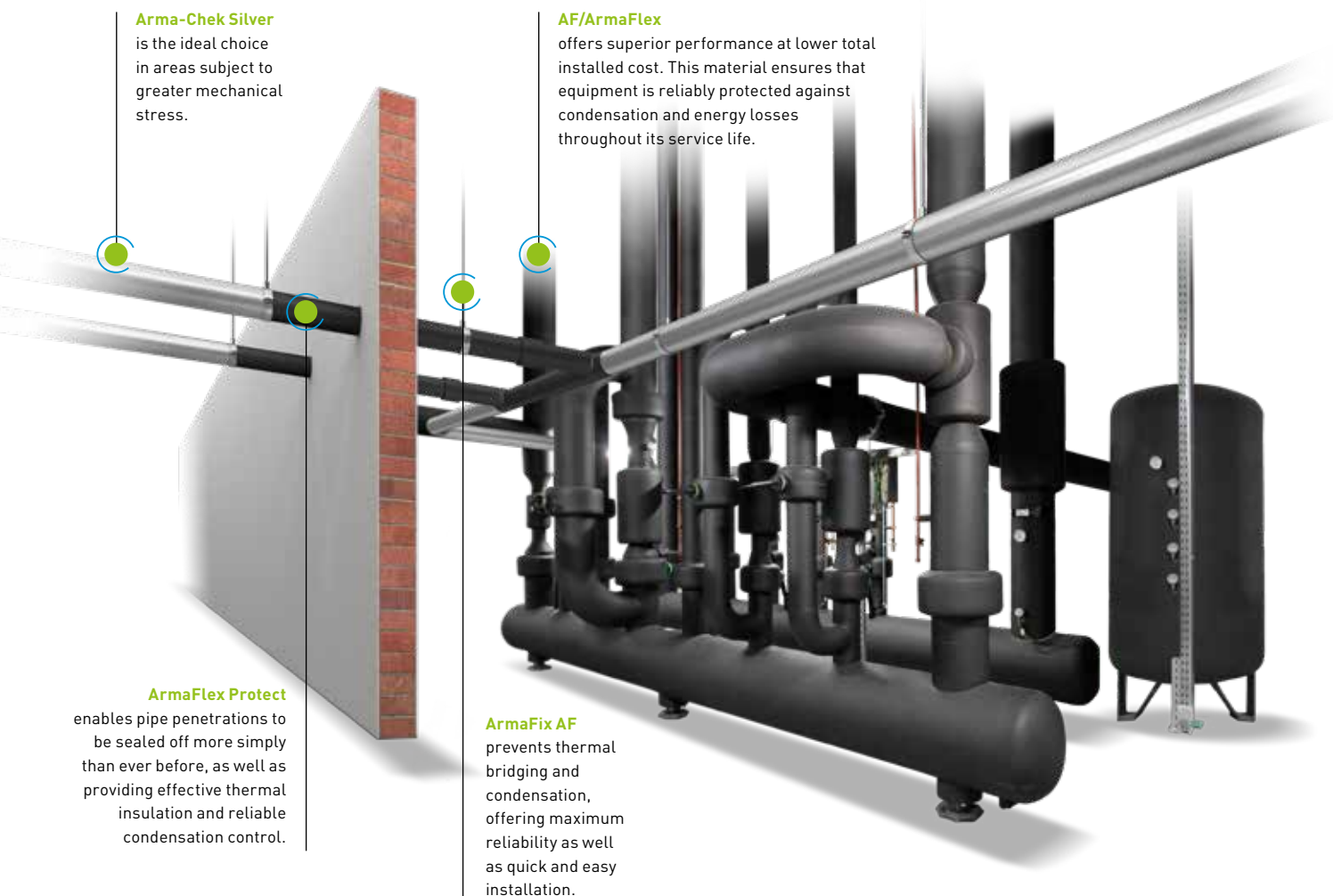
We offer systems whose individual components are superbly coordinated with each other and which are tested as a complete system. To ensure professional workmanship, trained ArmaFlex installers can be certified and receive an extended warranty on AF/ArmaFlex products.

Arma-Chek Silver is the ideal choice in areas subject to greater mechanical stress.

AF/ArmaFlex offers superior performance at lower total installed cost. This material ensures that equipment is reliably protected against condensation and energy losses throughout its service life.

ArmaFlex Protect enables pipe penetrations to be sealed off more simply than ever before, as well as providing effective thermal insulation and reliable condensation control.

ArmaFix AF prevents thermal bridging and condensation, offering maximum reliability as well as quick and easy installation.



ARMACELL GOES BEYOND BETTER.

At Armacell, we are committed to creating an exceptional customer experience. We understand the challenges in today's industries and are here to help you complete your projects successfully. From the planning stage to the handover – our 360° service supports you throughout.

Armacell Goes Beyond Better. Driving performance beyond the expected – Supporting you today and tomorrow.



ARMACELL APPLICATION TRAINING

To ensure that our thermal and acoustic insulation materials are installed properly, Armacell has trained thousands of installers around the world. Special training centres have been set up at many locations and we also provide valuable support on site. Several thousand insulators attend courses on installing Armacell products every year and are awarded the ArmaFlex application certificate.

ARMACELL ENERGY TEAM

Armacell's specialised energy team serves the oil & gas, petrochemical and power plants markets with a team of professionals around the globe for technical, calculation, application or testing and R&D support requirements related to our technical insulation systems.

ARMWIN – PROFESSIONAL INSULATION CALCULATIONS

With our powerful ArmWin software you can carry out all common technical calculations – even on the building site, thanks to the app. You can easily determine the minimum insulation thickness required for condensation control, plus surface temperature, heat flow, temperature changes in flowing and stationary media, freezing times for water pipes and the most economical insulation thicknesses, i.e. those with the shortest pay-back periods.



ArmWin
All technical insulation
calculations in one tool.

BIM PLUG-IN FOR PLANNING TECHNICAL INSULATION



The future of construction is digital: Business Information Modelling (BIM) allows mechanical equipment to be planned, built and operated digitally from design to commissioning, maintenance, demolition and disposal. Armacell's BIM plug-in is seamlessly integrated in the AutoDesk® Revit® programme and provides key product information. The software accesses the data required directly in the model and supports the user in choosing and configuring products.

COMPANIES AROUND THE WORLD ARE RELYING ON OUR PROVEN SOLUTIONS

Just a few of the **successful projects**:

// **Austria**

Lenzing lyocell fibre plant, Lenzing

// **France**

Les Laboratoires Servier, Gidy & Bolbec

Sanofi, Chilly-Mazarin

BAPBAP Bières artisanales Parisiennes, Paris

// **Germany**

Lindt, Aachen

MILEI, Leutkirch

NXP, Hamburg

VW Gläserne Manufaktur, Dresden

Wacker Chemie, Burghausen

Zeiss, Oberkochen

// **Kuwait**

KNPC Al-Zour refinery

// **Portugal**

Fresenius Kabi Labesfal S.A., Santiago de Besteiros

// **Russia**

Pfleiderer, Novgorod

// **Saudi Arabia**

Saudi Kayan Olefins plant

// **Serbia**

NIS Pančevo refinery

// **Spain**

Laboratorios Hipra

Laboratorios Roche S.A

// **Switzerland**

Linth-Limmern power plant

CSL Behring, Lengnau

Lonza, Visp

Roche, Basel

La Fromagerie Moléson, Orsonnes

// **Trinidad and Tobago**

AUM Complex

// **United States**

Pennsylvania Chemicals

Port Arthur Ethylene Cracker

// **Vietnam**

HyoSung Vina Chemical



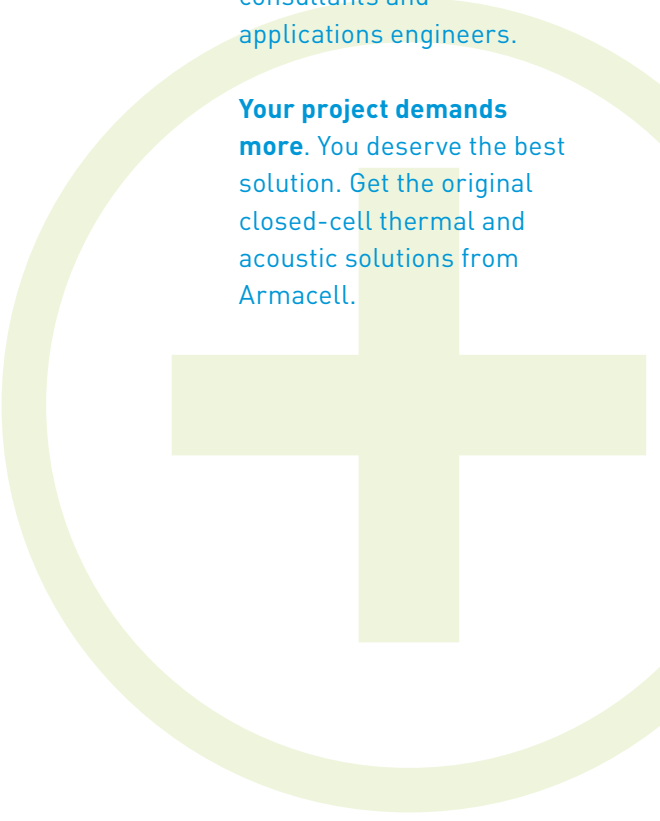
TRACK
RECORD

SMART SOLUTIONS FOR YOUR BUSINESS

Enjoy the benefits of our excellent customer service.

All over the world, our customers rely on sales representatives, technical consultants and applications engineers.

Your project demands more. You deserve the best solution. Get the original closed-cell thermal and acoustic solutions from Armacell.



All data and technical information are based on results achieved under the specific conditions defined according to the testing standards referenced. Despite taking every precaution to ensure that said data and technical information are up to date, Armacell does not make any representation or warranty, express or implied, as to the accuracy, content or completeness of said data and technical information. Armacell also does not assume any liability towards any person resulting from the use of said data or technical information. Armacell reserves the right to revoke, modify or amend this document at any moment. 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 building regulations lies with the customer. This document does not constitute nor is part of a legal offer to sell or to contract. At Armacell, your trust means everything to us, so we want to let you know your rights and make it easier for you to understand what information we collect and why we collect it. If you would like to find out about our processing of your data, please visit our **Data Protection Policy**.

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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 3,000 employees and 23 production plants in 15 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: www.armacell.com.

For product information, please visit:
www.armacell.eu