



HEAT AND THERMAL INSULATION

2026





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PADTEX INSULATION IS PROUDLY
ISO 9001:2015 CERTIFIED

**PADTEX INSULATION, ESTABLISHED IN 2003,
IS ONE OF THE LEADING PRODUCERS OF FIBERGLASS PRODUCTS IN THE BALTICS.**

We are headquartered in the city of Valmiera with branches in Cesvaine and Gulbene.

We provide high-quality insulation and fire safety products—manufactured, supplied, and installed for diverse industries worldwide.

Quality is our priority—we uphold the highest standards in every detail, with full dedication to client satisfaction.

We specialize in custom-made products, tailored to each client's specific needs and technical specifications—available in various sizes for a perfect fit every time.

AT PADTEX INSULATION, QUALITY ISN'T JUST A STANDARD, IT'S A MINDSET SHARED BY OUR ENTIRE TEAM.

OUR STRENGTH LIES IN OUR PEOPLE – a team of dedicated professionals who bring passion, innovation, and expertise to every project.

WE ARE ALWAYS IMPROVING – refining our processes, optimizing resources, and pushing the boundaries of what's possible.

FOR US, QUALITY IS MORE THAN A GOAL – it's a shared commitment.

WE LOVE WHAT WE DO, BECAUSE WE KNOW IT MATTERS.



**A SAFER, SUSTAINABLE SOLUTION FOR
HIGH-TEMPERATURE APPLICATIONS**

THE EUROPEAN COMMISSION IS PROGRESSING TOWARD NEW REACH RESTRICTIONS ON CHROMIUM (VI) SUBSTANCES, EXPECTED TO TAKE EFFECT AROUND 2027. THIS SHIFT WILL DIRECTLY LIMIT THE USE OF CHROMIUM (VI) IN INDUSTRY, MAKING SAFE ALTERNATIVES INCREASINGLY IMPORTANT.

What is Chromium (VI)?

Chromium (VI), or hexavalent chromium, is a highly toxic form of chromium that can appear in yellow, orange, red, or purple compounds. It is known for serious health and environmental risks, and its use is being progressively restricted worldwide.

How Chromium (VI) Forms?

In high-temperature environments (above 400 °C), hexavalent chromium can form when:

- Stainless steels (containing $\geq 12\%$ Cr) are exposed to heat, and
- Calcium-based materials are present, which promote oxidation.

This reaction can occur in furnaces, exhaust systems, and other industrial equipment, potentially releasing harmful Chromium (VI).

PADTEX SOLUTION: CHROMIUM (VI)-FREE INSULATION

Padtex has developed a calcium-free thermal insulation system engineered to eliminate one of the main causes of Chromium (VI) formation. By removing calcium-based compounds, Padtex insulation prevents the oxidation pathway that generates Cr(VI)—even under extreme temperatures.

KEY BENEFITS

- Completely Chromium (VI)-free
- Prevents formation of Cr(VI) at high temperatures
- Safer for workers and the environment
- Compliant with upcoming REACH regulatory changes

Padtex offers a clean, sustainable, and future-ready insulation solution for high-temperature industrial operations.





ORIGINAL EQUIPMENT MANUFACTURING (OEM)

**Tailored to your technical needs.
Engineered for performance and safety.**

WIDE RANGE OF SOFT INSULATION OPTIONS



INDUSTRIAL
MANUFACTURING



MARINE



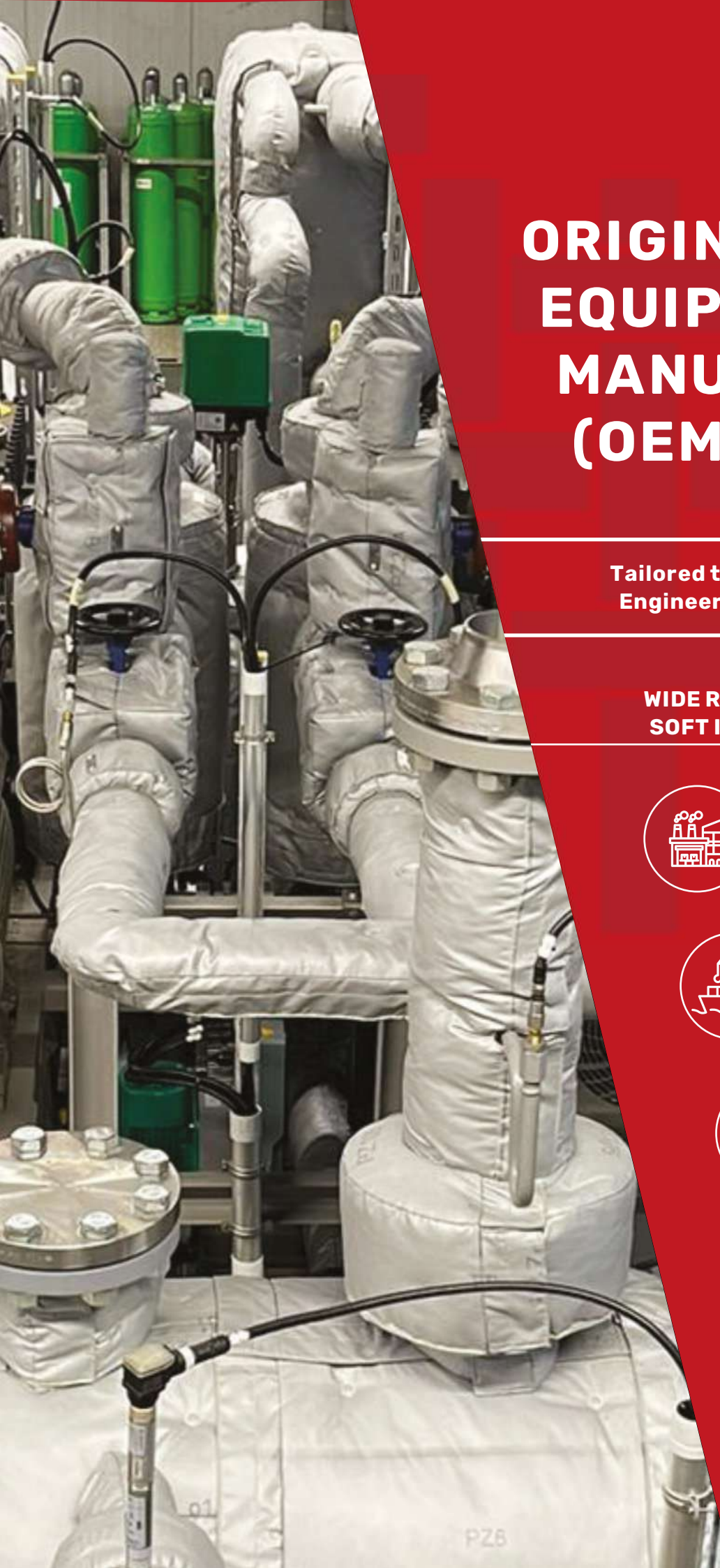
CONSTRUCTION



ENERGY



AUTOMOTIVE



At Padtex Insulation, we specialize in Original Equipment Manufacturing (OEM), collaborating with clients to develop customized insulation solutions that meet specific requirements. Our products are designed to enhance the thermal and acoustic performance of your systems while ensuring the highest levels of safety.

WHY CHOOSE PADTEX OEM SOLUTIONS?

• Tailored to Your needs

Our insulation products are designed to seamlessly integrate into your equipment, ensuring performance and efficiency.

• Advanced 2D & 3D design capabilities

We utilize specialized CAD software to create detailed 2D and 3D models, allowing you to visualize the insulation solution before production.

• Expert guidance & support

Our experienced technicians provide comprehensive consultation to help you choose the best insulation solution for your application. Whether you need a standard product or a fully customized design, we ensure the best fit for your requirements.

• Wide range of soft insulation options

From thermal and acoustic insulation to high-performance safety solutions, we offer a broad selection of flexible insulation materials tailored to different industries such as:



AUTOMOTIVE



MARINE



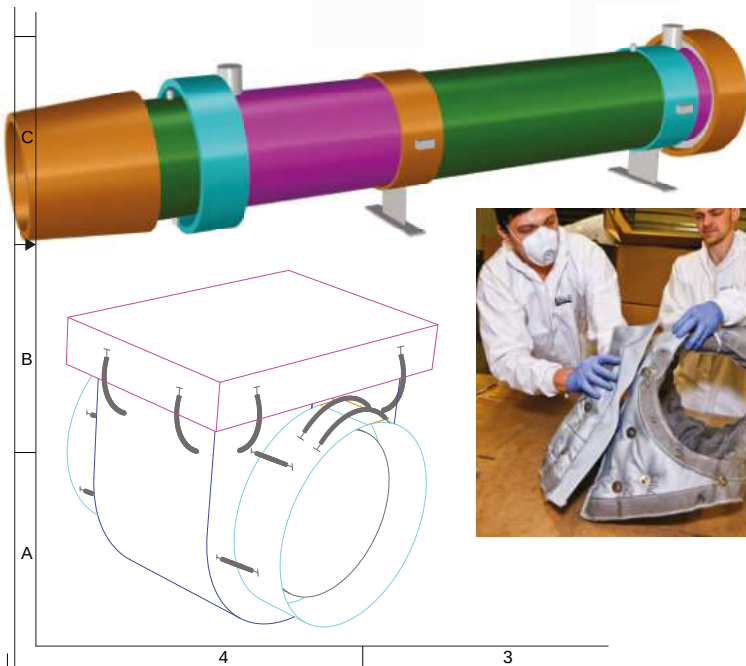
CONSTRUCTION



ENERGY



INDUSTRIAL
MANUFACTURING



OUR PROCESS:

• Consultation & Measurement

Understanding your needs and specifications.

• Design & Visualization

Creating precise 2D and 3D models for approval.

• Manufacturing & Quality control

Producing high-quality insulation solutions that meet industry standards.

Partner with Us for Custom-Engineered Insulation Solutions!

Whether you need a custom-engineered insulation system or a ready-made solution, Padtex Insulation is your trusted OEM partner for high-quality, tailor-made products.



STEAM AND GAS TURBINE INSULATION

**Engineered insulation
for peak performance, safety, and
lasting efficiency.**

TAILORED INSULATION FOR VARIOUS INDUSTRIES



CHEMICAL
&
PHARMACEUTICAL



METALLURGY
&
STEEL



RENEWABLE
ENERGY



POWERPLANTS



FOOD
INDUSTRY



OIL & GAS



At Padtex Insulation, we specialize in manufacturing high-performance removable insulation jackets for steam and gas turbines.

OUR INSULATION SOLUTIONS ARE DESIGNED TO:

- REDUCE HEAT LOSS
- ENHANCE ENERGY EFFICIENCY
- PROVIDE ENVIRONMENTAL BENEFITS
- DELIVER SUPERIOR THERMAL AND ACOUSTIC INSULATION
- ENSURE EASY MAINTENANCE AND ACCESSIBILITY
- EXTEND EQUIPMENT LIFESPAN
- OFFER FIRE RESISTANCE AND CONDENSATION PREVENTION
- PRIORITIZE PERSONNEL SAFETY



TAILORED INSULATION FOR VARIOUS INDUSTRIES

We develop custom insulation solutions for a wide range of industries, including:



POWER PLANTS



FOOD INDUSTRY



OIL & GAS



**CHEMICAL
&
PHARMACEUTICAL**



METALLURGY & STEEL



RENEWABLE ENERGY

OUR EXPERTISE



CUSTOM PROTOTYPING AND MANUFACTURING to meet specific client requirements

PROFESSIONAL DESIGN AND ENGINEERING by experienced designers for precision and efficiency

ADVANCED THERMAL AND ACOUSTIC MATERIALS for maximum performance

HEAT-REFLECTIVE INSULATION achieving up to 95% heat reflection



FLEXIBLE GLASS FIBER TEXTILE JOINTS ensuring durability, elasticity and resistance to heat, pressure and vibrations

REMOVABLE AND EASY-TO-INSTALL solutions for quick maintenance and operational flexibility

COMPLIANCE WITH INDUSTRY STANDARDS for safety, energy efficiency and environmental regulations

TURNKEY SERVICES WORLDWIDE with expert technicians managing every stage of production and installation

END-TO-END THERMAL INSULATION EXPERTISE

For over 20 years, we've partnered with leading global gas and steam turbine manufacturers, providing high-tech, reliable, and cost-effective insulation solutions. From design and manufacturing to installation, we ensure seamless, tailored service that enhances turbine performance, improves safety, and extends equipment lifespan.

Our team of skilled technicians supervises every stage of production, offering complete turnkey services worldwide.





FABRIC EXPANSION JOINTS

**Flexible strength for extreme environments -
Engineered to seal, protect, and perform.**

ESSENTIAL ACROSS DIVERSE INDUSTRIES



POWER PLANTS
GAS TURBINE INSTALLATIONS
AND CEMENT PRODUCTION



FLUE GAS AND HOT ASH
COLLECTION SYSTEMS



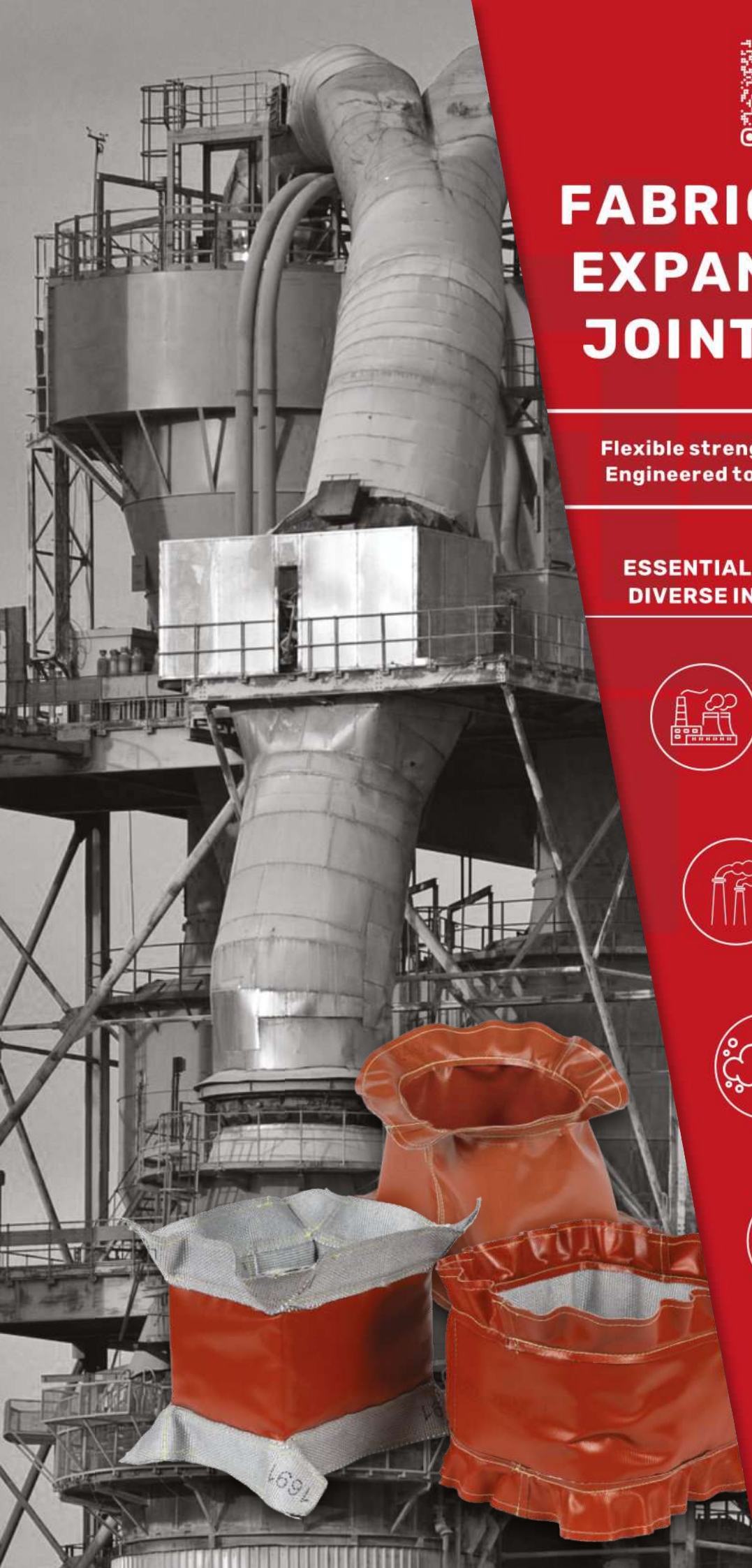
ENVIRONMENTS
INVOLVING
AIR, SMOKE AND DUST



CONNECTIONS
BETWEEN
VIBRATING
MACHINERY



CHEMICAL
PROCESSING
EQUIPMENT





Padtex Insulation offers high-quality fabric expansion joints, also known as fabric compensators, in various sizes and shapes. They are made from temperature-resistant fiberglass fabric for durability and reliable performance.

DESIGNED FOR:

- Transporting gases, dust, and fumes
- Cold and hot air installations, ventilation and air conditioning systems
- High-speed, abrasive product transport and chemically hazardous substances

APPLICATIONS

Fabric expansion joints are essential components in a wide range of industries, including:



POWER PLANTS
GAS TURBINE INSTALLATIONS
AND CEMENT PRODUCTION



FLUE GAS AND HOT ASH
COLLECTION SYSTEMS



CHEMICAL PROCESSING
EQUIPMENT



CONNECTIONS BETWEEN
VIBRATING MACHINERY



ENVIRONMENTS INVOLVING
AIR, SMOKE AND DUST

FEATURES & BENEFITS

Our flexible expansion joints, primarily made from fiberglass fabric, are often coated with silicone or PTFE (a type of Teflon) for enhanced protection. These materials provide:

- **High resistance** to chemicals and temperature fluctuations
- **Effective load distribution** across connections
- **Superior elasticity and flexibility,** making them suitable for pipelines of any shape



CUSTOMIZATION & ADDITIONAL COATING

For environments requiring extra durability and chemical resistance, we offer:

- Multi-layered materials for increased strength
- PTFE coatings for chemically aggressive applications
- Additional insulation options for extreme conditions



Padtex Insulation's fabric expansion joints provide reliable performance, long-lasting durability, and superior protection across demanding industrial applications.



INSULATION JACKETS

Custom-fit insulation for safer, smarter, and more efficient industrial performance.

INSULATION JACKETS OFFER MAJOR INDUSTRIAL ADVANTAGES

- EASY MAINTENANCE & ACCESSIBILITY
- MOISTURE & CORROSION PREVENTION
- IMPROVED TEMPERATURE CONTROL
- ENVIRONMENTAL BENEFITS
- EQUIPMENT LONGEVITY
- PERSONNEL PROTECTION
- ENERGY EFFICIENCY
- NOISE REDUCTION

We provide exceptional thermal protection for critical components like engine exhausts, exhaust piping, valves and industrial processing equipment. Our removable insulation jackets are custom-designed to fit any shape, size, or configuration, featuring a multi-layered design and secure fastening systems for durability and optimal performance.

WE OFFER A VARIETY OF INSULATION JACKETS TO PROTECT ESSENTIAL COMPONENTS, INCLUDING:

ENGINE EXHAUSTS – Manifolds, turbochargers, outlet elbows, and more

EXHAUST PIPING – Flexible sections, silencers, catalysts, etc.

VALVES, MANWAYS & INDUSTRIAL PROCESSING EQUIPMENT

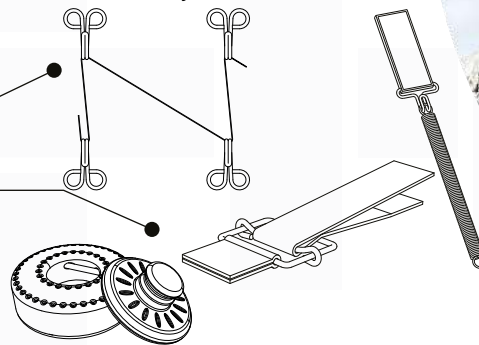
SECURE & RELIABLE FASTENING SYSTEM

To ensure a perfect fit around your equipment, our insulation jackets feature durable fastening methods, including:

Stainless Steel Lacing Wire

Heavy-Duty Straps & Springs

Snaps & Velcro for Easy Application



BENEFITS OF INSULATION JACKETS

Installing insulation jackets on industrial equipment and systems offers numerous advantages, including:

ENERGY EFFICIENCY

Minimizes heat loss to reduce energy use and costs.

PERSONNEL PROTECTION

Reduces risk of heat-related injuries.

EQUIPMENT LONGEVITY

Minimizes thermal stress for longer-lasting equipment.

IMPROVED TEMPERATURE CONTROL

Ensures stable conditions for better performance.

MOISTURE & CORROSION PREVENTION

Protects against moisture and corrosion in humid areas.

EASY MAINTENANCE & ACCESSIBILITY

Enables easy checks and servicing without removal damage.

ENVIRONMENTAL BENEFITS

Supports sustainable operations by reducing energy loss.

NOISE REDUCTION

Reduces industrial equipment noise through acoustic insulation.

At Padtex Insulation, we understand the unique challenges of industrial operations and are committed to providing high-quality, custom insulation solutions tailored to your needs. Our team works closely with you to ensure your equipment operates efficiently, safely, and sustainably—helping you reduce energy costs, enhance safety, and improve overall performance.



VALVES

**Smart insulation for safer valves,
stronger systems, and zero downtime.**

**BUILT TO PROTECT.
DESIGNED FOR ACCESS.
ENGINEERED TO LAST.**



THERMAL EFFICIENCY



SAFETY



CONDENSATION
CONTROL



PROTECTION
OF EQUIPMENT

Marine valve insulation is crucial in the maritime industry, boosting energy efficiency, safety, and equipment lifespan. With the right materials and proper installation, ship operators can greatly enhance valve system performance and reliability. The insulation is flexible, removable, and ideal for valves needing regular maintenance. It's easy to install and remove without specialized tools.



BENEFITS OF VALVE INSULATION:



THERMAL EFFICIENCY

Reduces heat loss, resulting in significant energy savings and improved system efficiency.



SAFETY

Lowers surface temperature to reduce the risk of burns and injuries while fire-resistant materials enhance overall safety.



CONDENSATION CONTROL

Protects valves from thermal stress, corrosion and mechanical damage.



PROTECTION OF EQUIPMENT

Reduces maintenance costs and extends the operational lifespan of valve systems.







MARINE INSULATION

**High-performance marine insulation
designed to enhance safety**

**FROM ENGINE ROOMS TO BULKHEADS -
RELIABLE, CUSTOM
INSULATION SOLUTIONS.**

HIGH-TEMPERATURE

- &
FIRE-RESISTANT MATERIALS

- SUPERIOR NOISE REDUCTION
FOR IMPROVED COMFORT

DURABLE INSULATION

- DESIGNED FOR HARSH
MARINE CONDITIONS

COMPLIANCE WITH

- INTERNATIONAL
MARINE STANDARDS

EXPERT INSTALLATION

- &
MAINTENANCE SERVICES

Marine insulation involves applying high-temperature-resistant materials to ship components, controlling temperatures, reducing noise, and preventing fire spread. This insulation improves efficiency, reduces fuel consumption, and meets noise pollution standards. It's designed to withstand vibrations, mechanical stresses, and harsh marine conditions. Insulation fits snugly around components, with materials inspected and replaced as needed for long-term performance.

SCRUBERS

Scrubber insulation maintains thermal efficiency, protects the ship, and enhances exhaust cleaning by preventing heat loss and reducing surface temperatures. Made from high-temperature, corrosion-resistant, and fire-resistant materials, it withstands harsh marine environments, vibrations, and operational stresses.

BENEFITS OF SCRUBBER INSULATION:

- Helps ships meet international maritime regulations.
- By minimizing heat loss, insulation enhances the energy efficiency of the scrubber system and the overall performance of the ship's engine.
- Reduces the risk of burns and other heat-related injuries to personnel by keeping surface temperatures at safe levels.
- Helps prevent the risk of fire by using fire-resistant materials.

Insulation systems is designed for ease of installation and maintenance, allowing for quick repairs and inspections when necessary.

Professional installation is crucial to ensure proper fitting and maximum efficiency.

By selecting the appropriate insulation materials and ensuring proper installation and maintenance, ship operators can significantly improve the performance of their exhaust gas cleaning systems and protect both their equipment and personnel from the harsh conditions of marine environments.



ENGINE COMPARTMENT

Marine engine insulation involves applying materials to engine components to control temperatures, reduce noise and prevent fire spread. These materials withstand high temperatures, vibrations, and harsh marine conditions, improving engine efficiency and fuel consumption while contributing to a quieter environment. Insulation fits snugly around components, with materials designed for easy inspection and replacement to ensure long-term performance.

PROPER INSULATION HELPS TO MEET NOISE POLLUTION REGULATIONS AND STANDARDS.

APPLICATIONS:

ENGINE ROOMS:

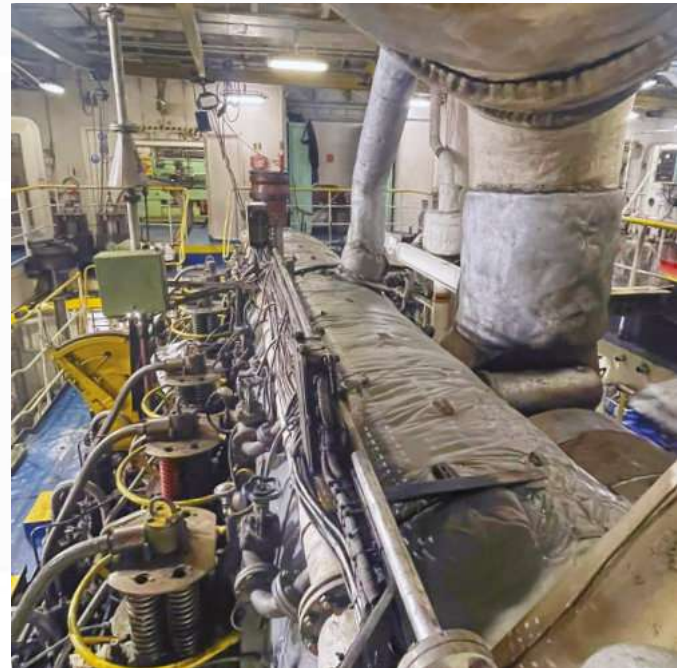
- Insulation is applied to engine blocks, exhaust systems and other heat-generating components in the engine room.

PIPES:

- Insulation of hot water pipes, steam lines and exhaust ducts to prevent heat loss and protect against burns.

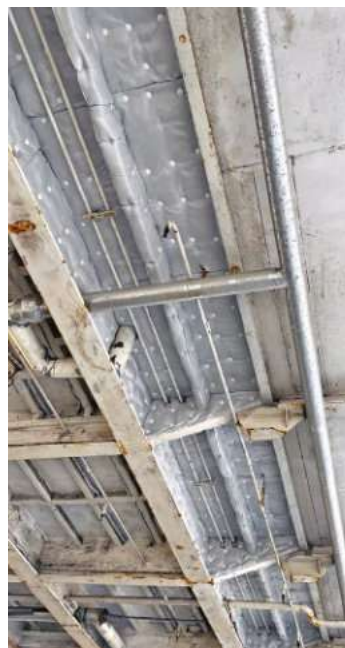
BULKHEADS AND DECKS:

- Insulation of bulkheads and decks adjacent to engine rooms to reduce heat transfer and noise.



Custom-fitted insulation mattresses are used to cover complex engine geometries.

By using high-quality, durable insulation materials and ensuring proper installation and maintenance, vessel operators can enhance the efficiency, safety, and comfort of their ships.



MANAGEMENT SYSTEM
AND PRODUCTS
CERTIFIED ACCORDING TO
INTERNATIONAL STANDARDS



made in
LATVIA

CERTIFIED
ISO 9001



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Discover more at
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