

Advanced Insulation Materials



Heat Pump Pipe Insulation

Heat pump systems operate at much lower flow temperatures than traditional boilers, which makes them far more sensitive to heat loss from exposed pipework. Any uninsulated section between the heat pump, cylinder, or distribution system forces the unit to work harder to maintain target temperatures, reducing COP and increasing running costs. Properly insulated primary pipework helps the system deliver the efficiency it was designed for, ensuring stable performance and protecting the homeowner's energy savings.

Insulation is equally important on refrigerant and external pipework. Cold suction lines can sit below ambient temperature, creating condensation that leads to corrosion, damp, and long-term reliability issues if left unprotected. Outdoor flow and return lines are also vulnerable to freezing, especially in exposed locations, and require thick-wall, weather-resistant insulation to prevent system shutdowns. In practice, good insulation isn't just a finishing touch — it's a core part of heat pump design, compliance, and long-term performance.

Isopipe TC Solar provides a purpose-designed solution. Its closed-cell structure, UV-resistant outer skin, and excellent thermal conductivity make it ideal for both external flow/return pipework on heat pump systems and refrigerant lines.

By combining long-term weather protection with reliable insulation performance, it helps ensure the system operates efficiently year-round while reducing the risk of condensation, heat loss, and freezing.

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ISOPIPE®



Isopipe Pipe Insulation

What is Isopipe TC Solar?

Isopipe TC Solar is a weather-resistant elastomeric insulation system, designed specifically for long-term outdoor exposure. It combines the core NBR closed-cell insulation with a durable polyolefin external skin engineered to withstand sunlight, harsh weather, and atmospheric pollutants.

Why ISOPIPE TC Solar?

- Polyolefin protective membrane – a tough, polymer-based outer skin that resists UV degradation, moisture, and environmental wear, making it suitable for exposed pipework.
- Closed-cell NBR insulation core – provides excellent thermal performance, condensation control, and low water vapour permeability.
- Long-term outdoor durability – engineered for heat pump, heating, cooling, and plumbing applications where insulation is exposed to sunlight and weather.

When it is used?

Isopipe TC Solar is chosen when standard elastomeric insulation would degrade outdoors. The polyolefin skin eliminates the need for additional cladding, painting, or taping, offering a clean, professional finish with minimal maintenance and no need for top up coats.

It's especially suited to heat pump pipework, rooftop services, and any installation where pipes are continuously exposed to sunlight and weather.

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The logo for ISOPIPE, featuring the brand name in a bold, black, sans-serif font with a red dot in the center of the 'O'. The logo is set against a white background with a grey hexagonal border.

ISOPIPE®

A photograph showing several rolls of dark grey, textured pipe insulation. One roll is cut open, revealing a bright orange inner lining. The rolls are stacked and arranged in a way that shows their cylindrical shape and the texture of the insulation material.

Isopipe Pipe Insulation

Technical Data

MATERIAL

Polyolefin Coated Nitrile Rubber

THERMAL CONDUCTIVITY (EN 12667)

0,033 W/mK at 0 °C

0,035 W/mK at 20 °C

0,036 W/mK at 30 °C

TEMPERATURE RANGE (EN 14707)

-50 °C to +85 °C

APPLICATION AREA

Heat Pump pipework and other external applications

ADVANTAGES

Excellent insulation properties and declared thermal values

Resilient Plastic does not need topping up to maintain—it's made to last

Protection against harsh weather and UV radiation

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Advanced Insulation Materials Ltd

- ✓ Right Insulation
- ✓ Right Price
- ✓ Right Time

insulationandlagging.co.uk

Maybe you don't need a Hero,
just some
Expert advice



Who we are:

Advanced Insulation Materials Ltd are an independent distributor of thermal insulation materials and ancillaries on Merseyside but covering the whole of the UK.

Our ethos is Right Insulation, Right Price, Right Time. Trusted since 2009

Independent Technical Advice

AIM is an independent thermal insulation distributor that covers the whole of the UK. We work with the leading insulation manufacturers to bring you the very best insulation products, but more than that we bring you sound technical advice to complement our range of brand leading thermal insulation materials. As one of the few truly independent distributors of thermal pipe insulation, or pipe lagging as it is sometimes known, we are able to offer you a broad range of options with no product bias.

- **Free Delivery on orders over £250—usually in 2 to 3 days**
- **Hundreds of Thousands of metres in stock**
- **Next Day and Timed Delivery options available**
- **In House Technical Advice on a range of materials**
- **Broad range of Accessories**
- **Tracked to site deliveries**

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