

PROPERTIES

ENERGY EFFICIENT: VITAPUR pre-cut pipe sections have an extremely low thermal conductivity minimizing heat exchange with a minimal layer of insulation making it fine-tuned to operate in a wide range of temperatures.

CHEMICALLY INERT: VITAPUR pre-cut pipe sections are resistant to the chemicals typically used in construction and is compatible with most solvent-containing adhesives, paints and wood preservatives. It is also resistant to fungus and mould growth

COST SAVING: Polyurethane insulated pipelines have minimal total operating cost. They are virtually maintenance free and have a long operational lifespan thereby ensuring great cost savings over the period of operation.

MECHANICAL PROPERTIES: Polyurethane foam is compatible with many materials and provides excellent adhesion and long lasting dimensional stability. It also keeps its excellent mechanical properties even at low densities.

EASE OF INSTALLATION: Using VITAPUR pre-cut pipe sections, insulated parts can be produced in factories or in-situ at the point of application.

DURABILITY: VITAPUR pre-cut pipe sections are stable and durable over extended periods of time. They have Low water and air ingress giving a long term guarantee for maintaining their excellent insulating properties throughout the life cycle of the pipeline.

APPLICATION AREA

Industrial piping: Pipelines are extensively used within chemical parks and plants in order to efficiently move fluids. Insulating these pipelines reduces energy dissipation and saves pumping costs.

Oil and gas: An intricate network of on-shore and off-shore transmission pipelines, platforms and tanks stands are very fundamental to the oil and gas industry. Polyurethane provides the engineer with the very best material to solve the complex trade-off between operational and capital costs.

Cryogenic services industry: Liquefied natural gas is an extremely important and growing source of energy. Its transport is only possible in cryogenic conditions. Polyurethane is widely used to insulate both pipelines and tanks in this field.

Municipal heating and cooling: Municipal heating and cooling are very efficient systems to provide warm or cold water to both residential, commercial and industrial users and polyurethane insulation is the key to efficiently bring the energy where it is needed.



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PRE-CUT PIPE SECTIONS

OUTER

INNER



PRE-CUT PIPE SECTIONS

Used as pipe insulation, VITAPUR pre-cut pipe sections are invaluable as a means of both preserving the low temperature of transported liquids and maintaining efficient heating systems.

VITAPUR offers a versatile range of polyurethane solutions to give your pipelines superior thermal conductivity properties in both discontinuous and continuous production.

It could be used to make pipe-within-pipe, with a layer of rigid foam binding an inner and an outer pipe. Insulated pipes can be thus prefabricated, which is one of their key advantages, allowing for quick installation, and its high insulation performance, where long-term temperature resistance is of critical importance.

VITAPUR pre-cut pipe sections are proven as reliable, innovative, flexible and cost efficient for transport of a variety of liquids both inside and outside of buildings. Its material properties give long service life and as the pipes are low-weight and highly flexible, they can be installed easily and quickly, even over obstacles and round corners.



THERMAL CONDUCTIVITY(K value)

EXPANDED CLAY	0.100
STRAW	0.090
WOOD WOOL	0.060
COCONUT FIBER	0.050
CORK SHEET	0.045
MINERAL WOOL	0.040
POLYSTYRENE	0.035
POLYURETHANE	0.024

* IN WATTS PER METER AND KELVIN (W/mK). THE LOWER THE VALUE THE BETTER THE INSULATION

SPECIFICATIONS

- Panel thickness available: _____
- Panel width available: _____
- Panel length available: _____
- Average density: _____
- Thermal conductivity: _____
- Temperature range: _____
- Free from CFC: _____
- Type of foam: _____
- Heat transfer coefficient: _____
- Pressure: _____
- Cubic Area Change: _____

35 mm PUF is equal to

50 mm EPS (Thermocol)
55 mm Glass wool
60 mm Mineral wool
80 mm Fiber board
175 mm Wood
475 mm Concrete
1075 mm Thick Brick work

ADVANTAGES

- Best thermal resistance property
- Composite system as constructive element
- Simple installation
- Various application fields
- Energy Saving
- Outstanding performance
- Cost Saving
- Versatility
- Incrustation-free medium which ensures long service life.

