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ISO FLEX Product Catalog 2021 EN

ISO FLEX

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About ISOFLEX

We at **Isoflex Kft.** have manufactured a variety of pipe insulation and pipe shell types since 1997, and the continuous expansion of our product range have made us one of the three largest insulated pipe support manufacturers in Europe.

Our engineering insulation materials gradually reached every point in Hungary and spread to an increasing number of markets in Europe. Our products comply with both European and American standards for insulation materials, and stocks from our manufacturing units are kept continuously high to ensure fast service for customers. We are proud that, in spite of the dynamic expansion of production, we retain the capacity to manufacture individual insulation

material to order, enabling us to satisfy extreme or especially complex customer requirements.

Our main insulating materials are polyurethane, rubber, polyethylene and, more recently, rock wool, and our shells and pipe support linings have long been complemented by different insulation tapes.

INSULATED PIPE SUPPORTS

ALU COVERING

- Materials**
Polyurethane foam, ALU covering
- Area of use**
Cooling / heating systems, fixing technology
- Available options**
Delivered with or without insulated pipe support

Dependent on the thickness of the pipe, the insulation clip consisting of 2, 3 or more heavy-duty components which fit into one another is mechanically strong and provides perfect insulation for pipes of any size. The insulated pipe support lining consists of two semi-circular elements made of polyurethane foam. These two semi-circles are covered in ALU tape with a self-adhesive closing segment and are laminated with protective foil. The insulated pipe support lining segment and the ALU tape form a strong water and humidity barrier. The finished insulated pipe support has good heat retention properties,

making it an ideal thermal insulator for both heating and cooling pipes. Our insulated pipe support insulation products are used mostly in the construction and petrol chemical industries where high quality and durable insulation is required. The internal diameter of the insulated pipe support lining is the same as the external diameter of the piping on which it is to be mounted. The product's external diameter is the same as the external diameter of the piping insulated with pipe shells or plates, and fits the internal diameter of the metal suspension clip.

Technical data

Temperature range between -45 and 120 °C	Processing temperature above 10 °C	Storage period 1 year (above 10 °C)	Water vapour resistance $\mu > 7000$	Width inner $\varnothing < 114 \text{ mm} - 75 \text{ mm}$ inner $\varnothing \geq 114 \text{ mm} - 100 \text{ mm}$
Colour grey	Fire resistance B2 (according to DIN 4102)	Tolerance inner $\pm 0.5 \text{ mm}$; outer $\pm 1 \text{ mm}$	PU foam carrier 80/120/145 kg/m ³	



INSULATED PIPE SUPPORTS

PVC COVERING

- Materials**
Polyurethane foam, with rubber insulation on both sides, PVC covering
- Area of use**
Cooling/industrial cooling systems fixing, vapour diffusion discharge
- Available options**
Delivered with or without insulated pipe support

Dependent on the thickness of the pipe, the insulation clip consisting of 2, 3 or more heavy-duty components which fit into one another is mechanically strong and provides perfect insulation for pipes of any size. The insulated pipe support lining consists of two semi-circular elements made of polyurethane foam. These two semi-circles are covered in ALU tape with a self-adhesive closing segment and are laminated with protective foil. The insulated pipe support lining segment and the ALU tape form a strong water and humidity barrier.

The finished insulated pipe support has good heat retention properties, making it an ideal thermal insulator for both heating and cooling pipes. Our insulated pipe support insulation products are used mostly in the construction and petrol chemical industries where high quality and durable insulation is required. The internal diameter of the insulated pipe support lining is the same as the external diameter of the piping on which it is to be mounted. The external diameter of the product is the same as the external diameter of the piping insulated with pipe shells or plates, and fits the internal diameter of the metal suspension clip.

Technical data

Temperature range between -45 and 105 °C	Storage period 1 year (above 10 °C)	Width inner $\varnothing < 114 \text{ mm} - 50 \text{ mm}$; inner $\varnothing < 114 \text{ mm} - 100 \text{ mm}$	Colour black	Tolerance inner $\pm 0.5 \text{ mm}$; outer $\pm 1 \text{ mm}$
Processing temperature above 10 °C	Water vapour resistance $\mu > 7000$		Fire resistance B2 (according to DIN 4102)	PU foam carrier 80/120/145 kg/m ³

PIPE SHELLS

Materials
Polyurethane foam, Alu and Al-clad covering

Area of use
Cooling / heating systems, insulating material for cold / hot technological systems

Dependent on the thickness of the pipe, the insulation clip consisting of 2, 3 or more heavy-duty components which fit into one another is mechanically strong and provides perfect insulation for pipes of any size. The jointed pipe shells are originally laminated with aluminium foil, but the product can also be ordered without it. The assembled pipe shell has great heat retention properties, while the polyurethane foam and the ALU covering prevent the accumulation of condensation water between the pipe and the pipe shell. Due to the positive features of the materials, the product effectively reduces heat loss.

Technical data

Temperature range between -45 and 120 °C	Length 100 cm
Processing temperature above 10 °C	Fire resistance B2 (according to DIN 4102)
Storage period 1 year (above 10 °C)	Tolerance inner +/- 0.5 mm; outer +/- 1 mm
Water vapour resistance 0.03g/qm/24 according to DIN 53122	PU foam carrier 32/80/120 kg/m³

THERMOSETTING, HIGH PERFORMANCE INSULATING MATERIALS



-200 °C — +120 °C



Technical data

- Raw density EN 1602: 38 - 42 kg/m³,
- Thermal conductivity at 10 °C application temperature EN 14308: [0.027] [0.026] [0.025] W/(m·K)



-80°C — +200 °C
for short periods up to > +250 °C



Technical data

- Raw density (EN 1602): 37 - 42 kg/m³
- Monitored limit value (fresh value) at a mean temperature of 10 °C EN 12667: 0.021 W/(m·K)
- at 10 °C application temperature EN 13165 / EN 14308: [0.027] [0.026] [0.025] W/(m·K)
- Description (EU) [EN 13165] PU-EN 13165-T2-DS(70,90) 3-DS(-20,-) 2-CS(10\Y) 250-TR150
- Description (EU) [EN 14308] PU-EN 13165-T2-DS(70,90) 3-DS(-20,-) 2-CS(10\Y) 250-TR150

ACCESSORY FITTINGS

“T” profile

Area of use
Industrial refrigeration, cooling and air conditioning

Dimensions
Manufactured to your requirements in diameter and wall thickness

Available option
bare Al-Clad mesh-alu

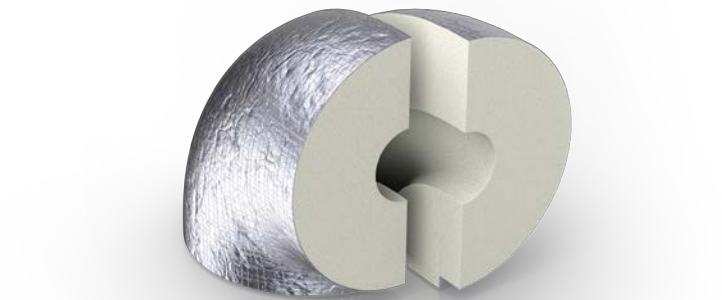


Elbow 45°/90°

Area of use
Industrial refrigeration, cooling and air conditioning

Dimensions
Manufactured to your requirements in diameter and wall thickness

Available option
bare Al-Clad mesh-alu

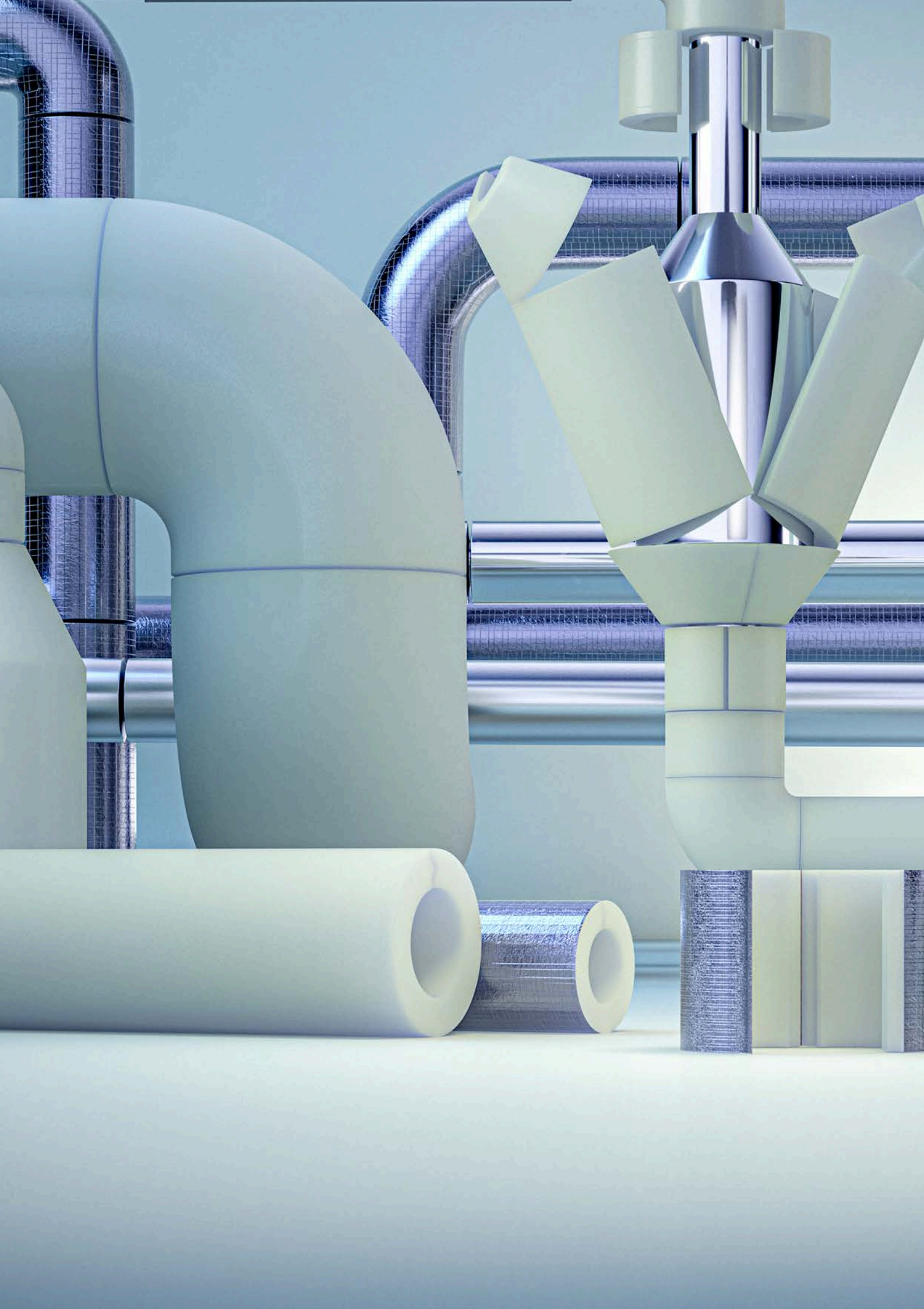


Narrower

Area of use
Industrial refrigeration, cooling and air conditioning

Dimensions
Manufactured to your requirements in diameter and wall thickness

Available option
bare Al-Clad mesh-alu



Thank you for audience.

ISOFLEX
2021

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