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Productsheet

Dan-isoCLEAN EC-ISO-shells

White coating

EC-ISO-Shell is a product range of half shells with a high insulation value and a smooth external surface that allows for easy wiping or cleaning with high pressure systems. The surface material is manufactured for direct food contact in accordance with EU Directive 2011/10/EC.

EC-ISO Shells are a waterproof option that effectively protects the pipes against corrosion.

Advantages of EC-ISO Shells insulation shells:

• Moulded using a foam system approved after the stringent requirements of EN 253 under controlled conditions. Constant temperature under production ensures an optimal foaming process.
• Smooth surface that is easy to maintain clean so that bacterial growth is prevented.
• Surface material approved for direct food contact.

The insulation is installed quickly and can be flexibly adapted to suit any piping. The rigid foam has a high compressive strength, and the insulation can be reopened for inspection.

Shells and bends have a long lifespan, which gives the best total economy.

• Optimized amount of closed cells in the foam, ensuring the best lambda value and thus the lowest possible energy loss and minimal moisture absorption.
• The quality system ensures that the density is checked several times a day which means very small tolerances and thus high finishes.
• Density and compressive strength are checked weekly in laboratory.

Achieve the best insulation value

Dan-iso A/S
Løgstørvej 146, Havbro
DK-9600 Aars

+45 9866 4003
mail@dan-iso.dk
www.dan-iso.dk

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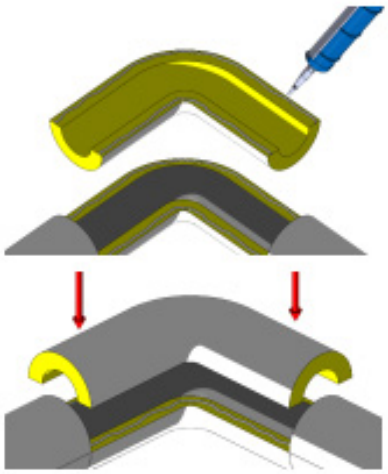
Technical Advantages

Easy Installation:

1. Effective insulation: Polyurethane has low thermal conductivity, making it particularly effective at minimizing heat loss and improving energy efficiency in pipe installations.

2. Long durability: The material is resistant to mechanical stress, chemicals, and extreme temperatures, ensuring long-term performance even under demanding conditions.

3. Flexibility: Polyurethane fittings can be adapted to various pipe sizes and configurations, making them suitable for complex installation projects.



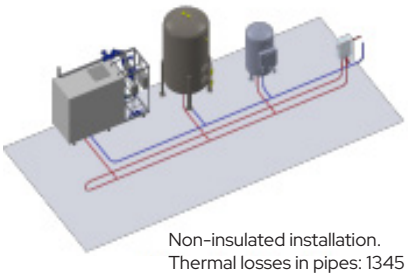
Superior Insulation Performance

EC-ISO-Shells have a low thermal conductivity that enables significant energy savings in heating and cooling applications. With a typical $\lambda 10$ value of only 0.0238W/m·K, EC-ISO-Shells have 30% lower thermal conductivity than other widely used insulation solutions.

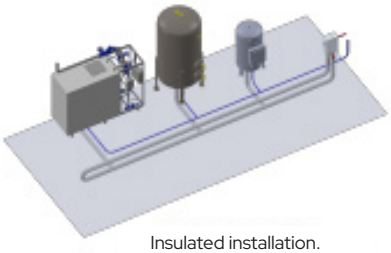
Insulation example:

A pipe installation comprised of 25m of stainless steel Ø30mm pipes, that transport a fluid at 80°C inside a facility at room temperature will lose 1345W* to the surrounding environment.

Insulating the installation with Ø100mm EC-ISO-Shells will result in net savings of 1112W*.



Non-insulated installation.
Thermal losses in pipes: 1345 W



Insulated installation.
Thermal losses in pipes: 233 W

Contact us for information on size and dimension of the pipe insulation shells - all fittings can be cast and cut to the desired specifications.

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