**Insulating & Saving Energy**

Dan-iso A/S provides technical insulation for district heating, cooling, the wind turbine industry, and construction – as well as for the oil, offshore, and marine industries. A reliable and innovative partner since 1986.

Opdateret 2011-2024

## Productsheet

# Dan-isoUV UVP-ISO-shells

### Black coating

UVP-ISO-Shell is a product range of half shells with a high insulation value and a tough external surface designed for installation outdoors. The for easy wiping or cleaning with high pressure systems.

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

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 and a superior insulation value, which provides the best economy over the lifetime of the installation.

**Advantages of UVP-ISO-Shells insulation shells:**

• Moulded using a foam system approved after the stringent requirements of EN 253 under controlled conditions. State of the art machinery and constant temperature under production ensures an optimal foaming process.
• Tough external surface that protects the insulation from the elements.
• Maximized amount of closed cells in the foam, ensuring the best lambda value and thus the lowest possible energy loss.

• Minimal moisture absorption due to the closed-cell nature of the foam. Correctly installed insulation shells effectively protects the pipes from corrosion.
• Dan-iso's quality system ensures that the density and compressive strength are checked weekly in our laboratory.
• Lambda values are verified quarterly by an external laboratory.

**Achieve the best insulation value
– use cast shells!**

**Insulating & Saving Energy**

Dan-iso A/S provides technical insulation for district heating, cooling, the wind turbine industry, and construction – as well as for the oil, offshore, and marine industries. A reliable and innovative partner since 1986.

**Productsheet**

# Dan-isoUV UVP-ISO-shells

## Technical Advantages

### Easy Installation:

UVP-ISO-Shell offer ease of installation and exceptional insulation performance.
Installation is performed using common simple tools. The specially selected casing material allow for easy adjustments to the geometry of the shells using just a utility knife or a fine-toothed blade.
UVP-ISO-shells are supplied with a hybrid bond and seal adhesive that ensures the best insulation performance and ease of installation.

### Superior Insulation Performance:

UVP-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, UVP-ISO-Shells have 30% lower thermal conductivity than other widely used insulation solutions.

### Insulation example:

An uninsulated pipe installation comprised of 25m of stainless steel Ø100mm pipes, that transport a fluid at 70°C under typical Danish climatic conditions will lose an average of 22.4kW* to the surrounding environment.

Insulating the installation with Ø200mm UVP-ISOShells will result in **net savings of 22kW***.
An imperfectly applied in-situ foamed insulation layer that causes thermal bridges in only 10% of the installation will result in losses of **2.2kW** compared to insulation manufacturer under carefully controlled conditions.
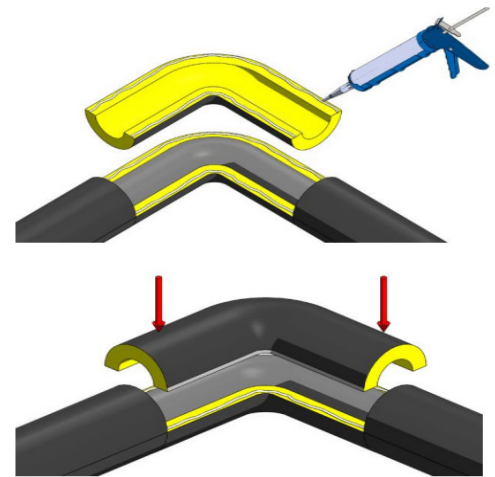
**Get the actual insulation value!**

*In-situ* foaming occurs under uncontrolled conditions which often leads to thermal bridges along the installation.

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

Disclaimer:
All information in this product sheet is based on our practical experience and reliable laboratory assessments. However, we will not accept any responsibility for its use, as the circumstances under which the products are stored, handled and used, are beyond our control.
For further information and advice, please contact our technical personnel. The foam property data should be seen as a guideline only.

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

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

Page 2/2

dan-iso.com