



The pipe system

isoplus's preinsulated pipe systems are fixed pipe systems. The pipes consist of a steel carrier pipe and an HDPE casing pipe, which are cast into a fixed sandwich structure with polyurethane insulation.

Steel pipe

Standard quality, longitudinal weld or spiral weld, P235TR1, P235TR2 or P235GH. Technical terms of delivery as per EN253.

Weld factor $V = 1.0$

Test certificate as per EN 10 204 - 3.1.

Bevelled ends as per DIN 2559 T1/22 and ISO 6761.

Insulation

The insulation is polyurethane foam with cyclopentane blowing agent, for optimum insulation values.

Compressive strength: 0.3 N/mm²

Continuous operating temperature, single pipe 143°C
Continuous operating temperature, double pipe 130°C

By special order, isoplus can supply preinsulated pipes that can withstand a continuous operating temperature of 161°C.

Casing pipe

The casing pipe is made of non-cross-linked hard polyethylene that is resistant to impact and fracture.

Material: Bimodal - HDPE

Density: over 940 kg/m³

Melt flow index: 0.3-0.8g/10 min.
as per ISO 1133

Elongation at fracture: min. 350%

Internal corona treatment: to optimise bonding characteristics. (Traditionally produced pipes)

Finished pipe

The finished pipe at least meets the requirements in DS/EN 253. The axial shear strength of the finished pipe, between the steel pipe, PUR and casing pipe, is at least 0.12 N/mm².

Exposed end of steel pipe: 220 mm

Standard lengths: 6, 12 and 16 m

Corrosion protection is applied to exposed ends on delivery.

Alarm system

isoplus pipes and components can be supplied with two integrated copper wires (1.5 mm²) for electronic monitoring.

Fittings

All fittings are produced in accordance with the requirements in DS/EN 448 and DS/EN 488