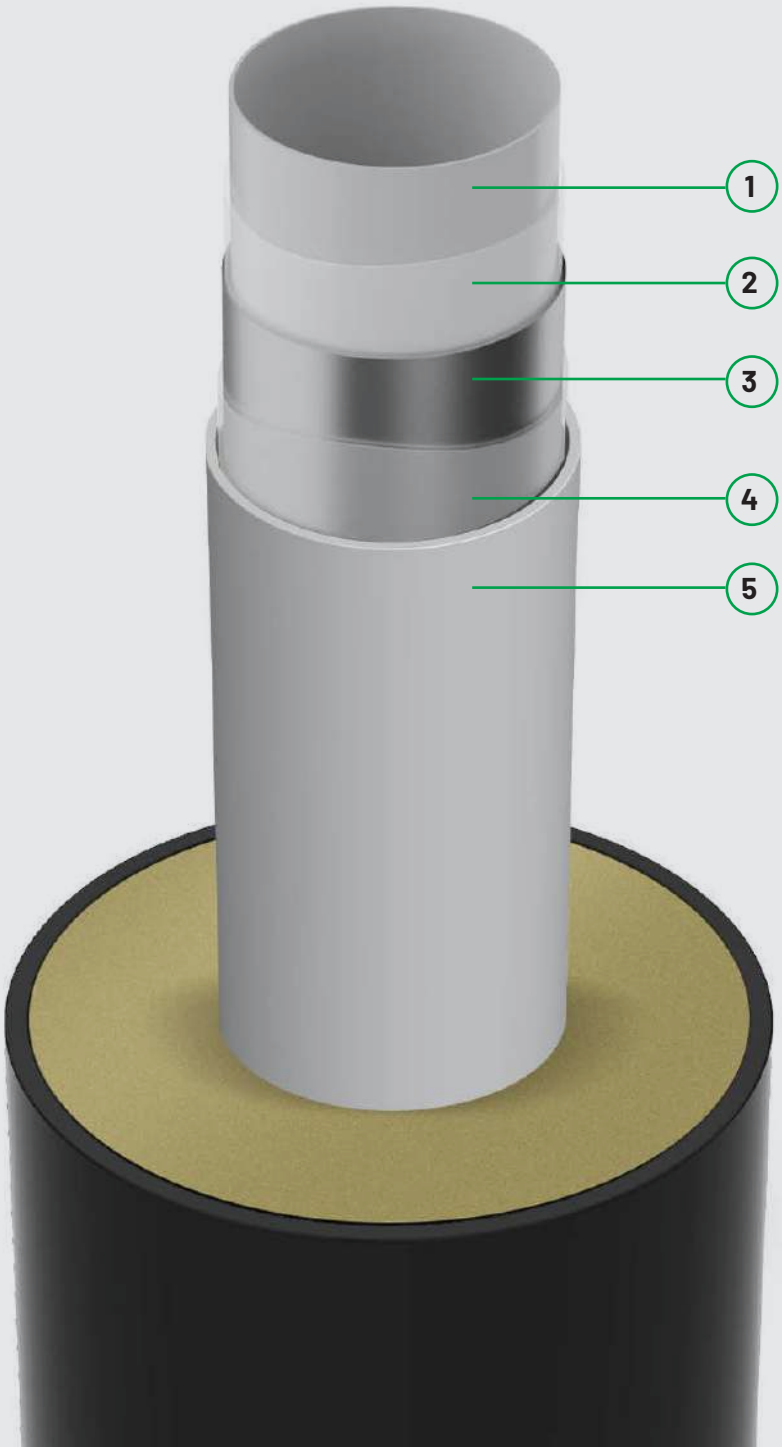
ECOALUPEX



1. Inner layer in PE-Xa
2. High-temperature adhesive layer
3. Aluminum foil as a high-temperature oxygen diffusion barrier
4. High-temperature adhesive layer
5. PE-Xa outer layer

ECOALUPEX

COMPOSITION	
PIPE	Pre-insulated flexible pipes with a multilayer service pipe, flexible polyurethane insulation, and an LD-PE outer casing.
MULTILAYER PIPE (PEX + ALUMINUM OXYGEN BARRIER + PEX)	
CROSS-LINKED STRUCTURE	Adesive
MAXIMUM CONTINUOUS OPERATING TEMPERATURE	90 C°
MAXIMUM SHORT-TERM OPERATING TEMPERATURE	100 C°
MAXIMUM OPERATING PRESSURE	PN 10
Based on the operating parameters of each system, specific calculations can be performed to determine the service life concerning maximum temperature and pressure.	
POLYURETHANE INSULATING FOAM	
MATERIAL	Polyurethane foam obtained by mixing polyol and isocyanate with a cyclopentane-based blowing agent.
REFERENCE STANDARD	Minimum characteristics according to EN 15632-2.
THERMAL CONDUCTIVITY	(50°C) ≤ 0,02 W/mK
DENSITY	≥ 50 kg/m^3
COMPRESSIVE STRENGTH	≥ 0,2 MPa
LONG-TERM TEMPERATURE RESISTANCE	100°C
AXIAL SHEAR STRENGTH (EN 253)	≥ 0,12 MPa
EXTERNAL SHEATH IN LD-PE	
MATERIAL	Low-density polyethylene (LD-PE) PE 80, compliant with ISO 12162. MFI variation ≤ 0.5 g/10 min.
REFERENCE STANDARD	Minimum characteristics according to EN 15632-2.
SPECIAL TREATMENT	Corona treatment.
DENSITY	0,92 g/cm^3
ELASTIC MODULUS	325 N/mm^2
FIRE REACTION CLASSIFICATION (DIN 4102)	B2 (normal flammability).
GENERAL	

The pipes are provided in coils cut to the lengths specified by the customer.

ECOALUPEX

ECOALUPEX is our pre-insulated flexible piping system designed for district heating systems

ECOALUPEX SINGLE - HEATING PN 10 – STANDARD INSULATION

Type [mm]	Multilayer Pipe			PE casing		Min. bending radius [m]	Pipe weight [kg/m]	Fluid content [l/m]	Maximum roll length * [m]
	d_{int} [mm]	wt [mm]	d_{ext} [mm]	D_e [mm]	wt_p [mm]				
20/90	16	2,0	20	90	3,0	0,80	0,9	0,20	-
25/90	20	2,5	25	90	3,0	0,80	1,0	0,31	-
32/90	26	3,0	32	90	3,0	0,80	1,2	0,53	-

* On request.

ECOALUPEX TWIN - HEATING PN 10 – STANDARD INSULATION

Type [mm]	Multilayer Pipe			PE casing		Min. bending radius [m]	Pipe weight [kg/m]	Fluid content [l/m]	Maximum roll length * [m]
	d_{int} [mm]	wt [mm]	d_{ext} [mm]	D_e [mm]	wt_p [mm]				
20+20/110	16	2,0	20	110	3,0	0,85	1,4	0,40	-
25+25/110	20	2,5	25	110	3,0	0,85	1,6	0,63	-
32+32/110	26	3,0	32	110	3,0	0,85	2,0	1,06	-

* On request.