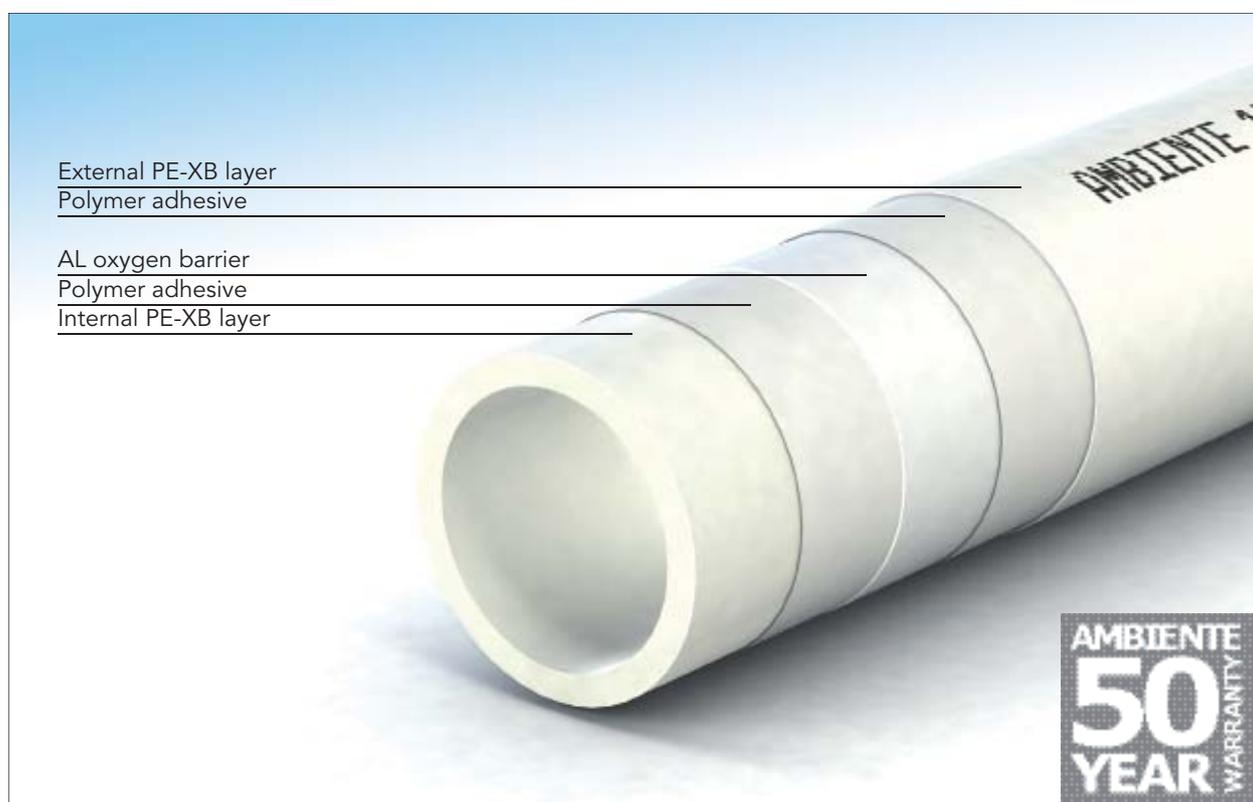


AMBIENTE PE-XB/AL/PE-XB PIPE

16MM

PRODUCT OVERVIEW



Ape multi-layer PE-XB/AL/PE-XB Pipe

This high specification 16mm pipe is made from a combination of polyethylene and aluminium alloy to provide an excellent combination of flexibility and strength and is made from the following layers:

PE-XB internal layer

Polyethylene has excellent properties at high pressures and temperatures as well as being very flexible and easy to use. It is non-corrosive and has very good resistance to frost. It is also creep-resistant and has a high impact strength, which means that if the pipe is distorted it will return to its original shape within a short period of time.

AL middle layer

Aluminium alloy layer renders the pipe easily mouldable and acts as a barrier to prevent the ingress of oxygen.

PE-XB outer layer

External layer of cross-linked polyethylene manufactured using the silane method provides rugged outer protection for the pipe.

PE-XB layers are bound to the inner aluminium alloy by means of two layers of highly specialised adhesive.

Technical Specification

Typology	Multilayer PE-Xb/AL/PE-Xb
Reference standards	UNI EN ISO 21003
Welding process	TIG welding head to head
Polyethylene cross-linking	Method B, silane method
Degree of cross-linking	>65%
Aluminium thickness (mm)	From 0.2 to 0.45
Max operating temperature	95°C
Max peak temperature	110°C
Max pressure at 95°C	10 bar
Duration at 95°C and 10 bar	50 years
Max operating pressure 20°C	30 bar
Thermal conductivity at 20°C	0.43 W/mK
Thermal expansion co-efficient	0.026 mm/mK
Inner roughness	0.007mm
Oxygen diffusion	0.00 mg/l
Field of operation	0 - 95°C
Radius of curvature	5 times the diameter
Colour	White