

TABOREX® PE-Xb compounds

SILON

PE-Xb

Hygienic advantages of PE-Xb pipes

Sanitary pipes made from TABOREX® material are a guarantee of the safe transport of drinking water throughout their long-lasting service life.



More than value

TABOREX® (PE-Xb)

Safe water and human health is our priority, which is why we always try to be ahead. Drinking water travels long distances in pipelines, and its quality may deteriorate during transport. In order to maintain the bacteriological safety of the water, chlorine or chlorine compounds are added in various sections of the network. These **disinfectants are very aggressive for pipe materials**, causing their degradation and significantly shortening their operation-life. It is important to choose a material that resist these chemical attacks. **Silane-crosslinked polyethylene, also known as PE-Xb, is the material that best resists disinfection used for drinking water treatment.**

Pipes made of PE-Xb are regularly tested and certified by the latest hygienic requirements of the European Union (directive 2020/2184), all its member states (DVGW, ACS and others), but also the requirements for the American (NSF 61), English (WRAS), Australian (AS 4020) and other markets.

TABOREX® (PE-Xb) advantages in pipe applications

Chlorination is the most effective chemical disinfection method currently used, but unfortunately has a negative impact on water piping systems. The level of ClO₂ differs from country to country from 0,5 to max. 4,0 mg/l and generally has an increasing trend.

PE-Xb pipes can best resist chlorination in comparison with other plastic pipe materials.

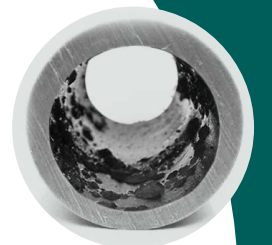
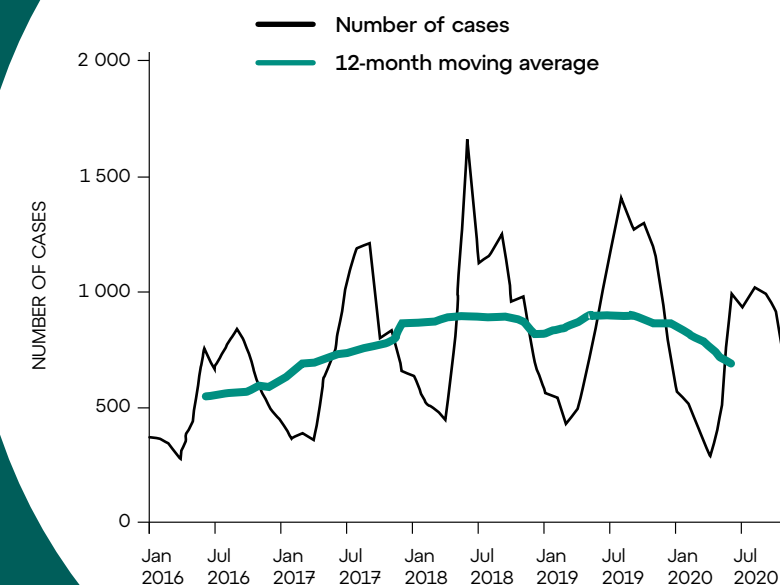
Waterborne pathogens include the microorganisms Giardia, Cryptosporidium and Legionella.

Legionella bacteria

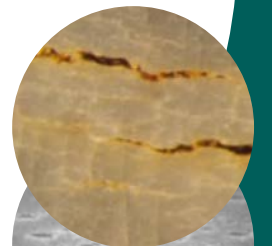


Distribution of Legionares' disease cases by month, EU/EEA, 2016 – 2020

Source: ECDC, Surveillance Report, 2020



Biofilm in the piping before chlorination



Cracks on the inner surface of non-PEX pipes after chlorination

Safe drinking water for your health

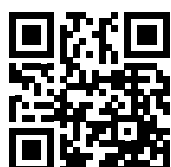
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Pipes made from TABOREX® meet the latest hygienic and mechanical standards

- Unrivaled low level of substance migration
- No negative impact on smell or taste
- NSF listed PEX 5306 – Chlorine resistance of ASTM F876 tested according to F2023
- ISO 9080
- **No biofilm**
PE-Xb pipes are known for an extremely smooth surface, which prevents of formation of deposits and the growth of biofilm proliferation.
- **Safe material**
A material that is completely non-toxic and all the starting substances are listed in the positive list. The compound composition is regularly controlled by certification bodies.

		mechanical	hygienic
GERMANY		ISO 15875	KTW
ITALY		ISO 15875	KTW
FRANCE		ISO 15875	ACS
AUSTRIA		ISO 15875	B5014
UK		BS7291	WRAS
NETHERLANDS		BRL5609	ATA
DENMARK		ISO 15875	DTC
NORTH AMERICA		ASTM F876	NSF 61



Please contact us if you are interested in
a sample of this material.

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