



Passive fire protection (PFP) of pipes is an essential safeguarding measure in Oil&Gas processing facilities. The constant pressure of highly flammable fluids and explosive gasses in confined spaces and locations, where people have limited escape routes, poses a significant risk in the industry.

Benarx Pipe Shell is ideally suited for passive fire protection of pipes. The slim construction is designed to withstand the toughest hydrocarbon- and jet fire scenarios. The prefabricated design with superior mechanical properties, saves valuable installation time.

Benarx Pipe Shell

Jet fire tested and certified for up to 34 minutes

Slim prefabricated design enables installation on pipes with narrow space to other pipes or equipment

High performance product thoroughly tested for explosion loads, ageing, noise reduction and static electricity

Low Life Cycle Cost, long life time, fast installation and easy removal for inspection

Proven track record in the toughest conditions from the cold harsh arctic to the warm tropic climate

Product overview

Fire protection

Benarx Pipe Shell is a prefabricated passive fire protection product for piping. The product is constructed with a core of perforated SS316 steel covered with intumescent PFP epoxy and painted. The slim construction is ideally suited to provide passive fire protection of piping where space is limited or where other traditional solutions does not meet the requirements .

Slim design

Benarx Pipe Shell can easily be customized to fit all piping configurations due to the slim design. The product allows for a fast and easy installation, and disassembly where inspection and maintenance are required. The pipesHELLs can also be lined with thin aerogel thermal insulation for additional thermal and acoustic insulation properties .

Durable

The product is an extremely durable solution that proves excellent performance in harsh environments. The waterproof outer shell and the air gap design between pipe and product offers excellent protection against CUI. The strong mechanical properties of the product also ensures excellent protection against wear and tear that typically is experienced in Oil&Gas processing facilities.



Benarx Product performance and properties

Property	Method	Value
Maintain stability and integrity of equipment in a jet fire caused by high pressure natural gas	ISO 22899-1 increased - 350 kW/m ²	120 minutes
Ability to withstand heavy explosion loads	Gas explosion test	1,2 bar
Age simulation performance test	ISO 20340	4200 hours exposure
Approved for use in all hazardous gas groups	EN 13463-1 Annex C	No electrical discharge