



Passive Fire Protection of piping systems is an essential part of piping in Oil&Gas production and processing facilities. The constant presence of highly flammable fluids and explosive gases under pressure, often in confined spaces and locations poses a significant risk in the Industry. Passive fire protection (PFP) play an important role in an event of a fire and is essential to maintain the integrity of the system.

Benarx Cellular Glass XP a patented product for passive fire protection of piping. The light weight and versatile construction combined the prefabricated nature makes it an effective solution for providing passive fire protection of piping systems in a process and production facility. The product is designed to withstand the toughest environments and its extensive testing and certifications for various fire ratings secure that the product meets the customer demands

Benarx Cellular Glass XP

Jet fire tested and certified for up to 171 minutes

Hydrocarbon fire tested certified for up to 107 Minutes

Prefabricated design significantly reduces installation time on site

High performance product thoroughly tested for explosion loads and environment effects

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

Product overview

Design

Benarx Cellular Glass XP is a passive fire protection (PFP) product with thermal insulation properties. The product is build up by cellular glass, intumescent epoxy and paint. It is delivered as a system consisting of straight sections and various fittings. The sections are fastened with stainless-steel fastening bands and the joints are sealed with a weather proof compound.

Faster installation

The product is delivered in prefabricated segments ready to be installed on pipes. The prefabricated design of Benarx Cellular Glass XP reduces installation time significantly compared to traditional insulation. The product is delivered in several configurations and sizes, based on project requirements and dimensions on the pipes.

Reduces CUI

Benarx Cellular Glass XP insulation system is designed as a fully weather protection system for the underlying items. If any water should penetrate the weather proofing barrier due to a defect, it is also designed to drain water away to prevent moisture on the insulated pipes and avoid corrosion under insulation(CUI).



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	32 minutes
	ISO 22899-1 - 250 kW/m ²	171 minutes
Safeguard stability and integrity of equipment at hydrocarbon fire	IMO Resolution. A 754 (18)	107 minutes
	OTI 95 634	43 minutes
Ability to withstand heavy explosion loads	Gas explosion test	1,2 bar
Salt spray test	ASTM B117	1000 hours exposure