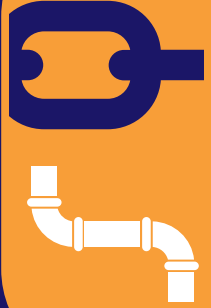


PFAS used in industrial settings

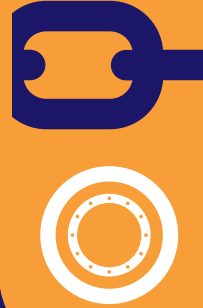


PFAS are used in a wide range of applications within industrial settings. From filtration and separation media used in high performance air and liquid applications, to coatings used in pipes and expansion joints and personal protecting equipment ensuring workers' safety.





Polytetrafluoroethylene (PTFE), Perfluoroalkoxy polymer (PFA), Ethylene tetrafluoroethylene (ETFE) and Polyvinylidene fluoride (PVDF) are all used in pipes, expansion joints, vessels, coatings for rollers and fittings for the chemical processing industry, with the objective to protect equipment from direct contact at high temperatures (up to 230°C) and very aggressive media, such as hydrochloric acid (HCl), sulfuric acid (H₂SO₄) or hydrofluoric acid (HF).



Polytetrafluoroethylene (PTFE), Fluoroelastomer (FKM) and Perfluoroelastomer (FFKM) based material are essential components of highly reliable sealing mechanisms such as seals and gaskets. These Fluoroelastomers (FKM) and Perfluoroelastomers (FFKM) offer similar thermal and chemical resistance as the fluoroplastics used in pipes, expansion joints, vessels and fittings allowing to fill the space between interconnected machines or storage containers and enable the use and transportation of hazardous chemicals. They are widely used due to their substantial chemical resistance, extremely high sealing ability, as well as other mechanical properties.



Hydrofluoroolefins (HFOs) act as blowing agents in the production of insulation foams. The blowing agents enable the foam to expand and harden during application, effectively sealing any cracks, joints, or seams. HFOs have unique physical properties enabling energy efficiency innovations for a range of different applications.



PFAS are used in personal protective equipment due to their water, heat, stain and oil resistance among others. Expanded Polytetrafluoroethylene (e-PTFE) based technical fabrics and visors provide advanced thermal and mechanical properties needed to protect workers against the hazards of electric arc flashes.



Pipes



Seals and Gaskets



Filters



Personal protective equipment