

Table of missing uses, necessary derogations and other identified uses (Qu)

Application (incomplete list with current status)	Use
Pumps and valves in Oil and Gas Industry Liquefied gas transportation, storage and production	Gaskets, seals, liners, wear parts in hydrocarbon upstream, midstream and downstream. Coatings of components in offshore applications
Pumps and valves in chemical process industry	Gaskets, seals, wear parts, diaphragms, liners, Bearings, inserts Coatings
Pumps and valves in food industry	Coatings, seals, gaskets, diaphragms, liners, bearings
Pumps and valves in energy generation	Gaskets, seals, liners, bearings
Pumps and valves in the pharmaceutical and biotechnological industry	Coatings, seals, gaskets, diaphragm, liners
Submersible pumps in dewatering	Seals, cable sheath
Pumps and valves in other industries - Wastewater treatment - Dosing - Mining industry - HVAC - Drinking water - Cryogenic applications - H2 production - Environmental mitigations - others	Seals, gaskets, diaphragms, liners, cables, coatings, wear parts, bearings, ...
Spare parts for pumps and valves	Seals, gaskets, diaphragms, liners, cables, coatings, wear parts, bearings, ...

Machining industry - production of (PFAS and NON-PFAS containing) materials - production of (assembled) products - spare parts	Seals, gaskets, coatings, production aids, sliding parts, To be specified by machines manufacturers
Electronic industry - production of semi-conductors - production of other electronics	To be specified by electronics manufacturers.
Automation & Drives	Gaskets, seals, insulation for cables of electric motors and variable speed drives

estions 6b, 7 and 8)

Property	PFAS
Resistance against hydrocarbons	FKM, FFKM
Temperature resistance	PTFE, PFA, PCTFE, ETFE
Low friction coefficient	
Corrosion resistance and anti-galling properties	
Resistance against aggressive chemicals	FKM, FFKM, PTFE, PVDF, PFA, ECTFE
Temperature resistance	
Low friction coefficient	
Non-sticking properties	PTFE, PFA, FKM
Resistance against aggressive cleaning chemicals	
High temperature resistance even in the presence of air borne oxygen	FKM, FFKM, PTFE, PFA, PCTFE
Resistance to high temperatures and aggressive chemicals being used in CIP and SIP	PTFE, PVDF, FKM, FFKM, PFA
Low coefficient of friction	
Weathering resistance and low water uptake	PTFE, PVDF, FKM, FFKM, PFA
Resistance against chemicals, temperature, weather, or a combination thereof = safety reasons	PTFE
	FKM
Use for tribological functionality = energy efficiency, duration, safety	FFKM
	FPE
Use due to hygienic aspects = health	(PFPE)
	ETFE
	ECTFE
	PVDF
	PFA
	PCTFE
Resistance against chemicals, temperature, weather, or a combination thereof = Safety	PTFE
	FKM
Use for tribological functionality = energy efficiency, duration, safety	FFKM
	FPE
Use due to hygienic aspects = health	(PFPE)
	ETFE

	ECTFE PVDF PFA PCTFE
Temperature (changes), chemicals, steam, anti-stick properties, hygiene, ...	PTFE FKM FFKM FPE (PFPE) ETFE ECTFE PVDF PFA PCTFE
Electronic industry - production of semi-conductors - production of other electronics	To be specified by electronics manufacturers.
- Temperature (changes), steam, anti-stick properties	ETFE ECTFE To be specified by electronics manufacturers.