

TABLE I

Sectors and (sub)uses

Table 1.

Main applications	Sub uses	Product	Use	Unique attributes	Industry Sectors
TULAC	Technical textiles	Fabrics	Flange protection to prevent blow out of aggressive media and filters.	Chemically inertness	Chemical and Petrochemical
		Yarns	Used to braid chemically inert packings	Chemically inert, High mechanical strength, Low friction coefficient and able to operate at High temperatures	Pharmaceutical, Food, Mining, Pulp and Paper, Chemical, Power, Petrochemical, Aerospace, Automotive, Steel Mills, Alumina
Food contact materials and packaging	Industrial food and feed production, e.g. in valves and conveyor belts, and for non-stick coatings	FDA Sheets / Gaskets	Creates a seal preventing liquids or gases escaping to atmosphere	Chemically inert, able to operate at high temperatures, low electric conductivity and ability to seal under low stresses	Pharmaceutical, Food
Transport	Sealing applications	Gaskets for Cryo	Tank Lids, Rail Cars, Ships	Chemically inertness, Low Temperature Resistance	Transportations, Chemical, Petrochemical
Energy sector	Proton exchange membrane (PEM) fuel cells / Electrolysis technologies (not PEM)	Threads	Threads for mechanical supporting membranes for Fuel-Cells and Electrolysers	Chemically inertness and High Mechanical Strength	Pharmaceutical, Food, Mining, Pulp and Paper, Chemical, Power, Petrochemical, Aerospace, Automotive, Steel Mills, Alumina
Lubricants		PTFE Packings	Creates a seal preventing liquids or gases escaping to atmosphere	Chemically inert, Low friction coefficient and able to operate at High temperatures	Pharmaceutical, Food, Mining, Pulp and Paper, Chemical, Power, Petrochemical, Aerospace, Automotive, Steel Mills, Alumina
Petroleum and mining	Lining of piping, seals, sensors, cables, etc.	Sheets / Gaskets	Creates a seal preventing liquids or gases escaping to atmosphere	Chemically inert, able to operate at high temperatures, low electric conductivity and ability to seal under low stresses	Pharmaceutical, Food, Mining, Pulp and Paper, Chemical, Power, Petrochemical, Aerospace, Automotive, Steel Mills, Alumina
		Joint Sealing (Tapes)	Creates a seal preventing liquids or gases escaping to atmosphere	Chemically inert, able to operate at high temperatures, low electric conductivity and ability to seal under low stresses	Power (Electrolysers), Pharmaceutical, Food, Mining, Pulp and Paper, Chemical, Petrochemical, Aerospace, Automotive, Steel Mills, Alumina
		Alky IR Protection	Acts as Protective a barrier to prevent crevice corrosion on piping on the alkylation units	Chemically inert, able to operate at high temperatures and ability to seal under low stresses	Petrochemical
		Isolation Gasket	Creates a seal preventing liquids or gases escaping to atmosphere while acting as an insulation for pipeline	Electric Insulation while chemically inert	Power (Transformers), Petrochemical Up, Middle and Downstream
		LE Packings	Lubricating and Blocking agent on graphite Fugitive emission packings to meet Global Low Emission Requirements (ISSO 15848 / API622 / VDI 2440)	Low friction coefficient, Chemical inertness and high temperature resistance: Reduces friction and act as blocking agents allowing the application of the high stress necessary to meet the low emission requirements on hydrocarbon valves that are responsible for more than 60% of the fugitive emissions.	Chemical and Petrochemical