











Sealing Materials

Sealing compounds and its characteristics

LUDECKE offers - subject to application and requirement - various seals made of diverse material. Of course, only approved seals are used which meet all requirements.

	Buna N	EPDM	FKM
Material	Buna N	EPDM	FKM
Specification	NBR	Ethylen-Propylen-Terpolymer	Fluor elastomer/ FPM
Description	<ul style="list-style-type: none"> Resistance to mineral based oils and carbon hydrate containing gasolines 	<ul style="list-style-type: none"> Resistant to water steam, alkali, mild acids and acid containing solvents* High resistance vs aging 	<ul style="list-style-type: none"> For use of various oils and greases*
Pressure resistance	Best	Best	Best
High temperature resistance	Good	Good	Best
Low temperature resistance	Best	Best	Good
Typical application	Hydraulics, Pneumatics	Glycol based breaking fluids, steam, hot water and heated air up to 150°	Hydraulics, Aviation, Automotive
Industries	  	  	   



PTFE (Teflon)	Hypalon	TFEP	FFKM
<p>Polytetrafluorethylen</p>	<p>Chlorosulfonated-Polyethylene (CSPE) Synthetic Rubber/CSM</p>	<p>Tetrafluorethylene/Propylene</p>	<p>Perfluoroelastomer</p>
<ul style="list-style-type: none"> • High partical crystalline plastics • Not meltable-liquid, only rubber like and soft • Best anti-friction properties • Barely weldable • To be used in a wide-spread temperature range • Outstanding chemical resistance • Environmental resistance 	<ul style="list-style-type: none"> • Highly resistant vs chemicals • Extreme resistant vs. oxidants, light, sunlight and ozone 	<ul style="list-style-type: none"> • Resistant against various media and chemicals*, in particular media with amine containing additives corrosion preventive liquids 	<ul style="list-style-type: none"> • Similar chemical resistance like PTFE • Elastic features from FPM/ FKM • Extraordinary pressure andre-taining character
Best	Best	Best	Best
Best	Best	Best	Best
Best	Best	Good	Best
<p>Tank processing, chemical pumps, coating for repellent surfaces, bearing, seals and taping bellow valves, piston rings isolated electronic parts, bearing constructions, anti-adhesive coatings</p>	<p>Cable coverage, acid resistant tubing, inner coating of tanks, seals, membranes</p>	<p>Chemical plants, motors</p>	<p>Chemical plants, oil production, aviation, motors and fittings</p>