

			Material Sealing																				Material Housing																				
Media	Density (kg/m³)	Gaseous	-30°C 140°C EPDM	-30°C 140°C EPDM/EPDM	-30°C 120°C EPDM/PTFE	-15°C 200°C FFKM	-10°C 140°C FKM	-10°C 120°C FKM/FKM	-40°C 300°C Metal	-40°C 80°C Metal/HP	-20°C 400°C Metal/Vilis®	-10°C 80°C NBR	-10°C 80°C NBR/NBR	-20°C 180°C PCTFE	-40°C 250°C PEEK/HT	-40°C 80°C Peek/PCTFE	-196°C 345°C PEEK/PCTFE-HP	PEEK/UHMWPE	-10°C 95°C POM	-196°C 230°C PTFE	-10°C 150°C PTFE/FKM	-10°C 80°C PTFE/NBR	-10°C 80°C PTFE/Peek	-40°C 230°C PTFE/Silikon	-196°C 250°C AISI 304 - 1.4301	-196°C 300°C AISI 316 - 1.4408	-196°C 300°C AISI 316 Ti - 1.4571(81)	-196°C 80°C AISI 316L - 1.4404	-40°C 250°C AISI 316L - 1.4435	-40°C 250°C AISI 316LN - 1.4462	-40°C 80°C AISI S165M - 1.4418	aluminium AL anodised	-40°C 200°C Co409K red brass	-196°C 300°C CW617N brass	-196°C 300°C EN-GJ250 grey cast	-10°C 300°C EN-GD240GH cast steel	-10°C 300°C EN-IS1025 ductile iron	-10°C 300°C P250GH+NL- C22.8 FN100	PTFE Polytetrafluoroethylene	PVC Polyvinyl chloride			
CNG - Compressed Natural Gas	0.7	ja							+		+		+		+					+					+		+	+		+					+								
CO carbon monoxide	1.25	ja					+				+					+				+	+					+		+		+					+	+	+	+					
CO2 carbon dioxide gas	1.98	ja					+		+		+					+				+	+	+				+		+	+		+				+	+	+	+					
Coke oven gas	0.6	ja					+																				+	+								+							
Condensate			+				+													+					+		+								+	+	+	+	+				
Condensate 200°C																				+	+						+	+							+	+	+	+	+				
Cool Emulsion, Cooling Water	1000		+				+	+				+				+				+	+				+	+	+								+	+	+	+					
Dimethylether DME	2	ja																		+						+	+	+															
Dipropylenglycolmethylether DPM																				+						+		+															
dirty Fluids							+						+									+				+		+							+	+							
Ethane C2H6	1.36	ja					+				+					+				+					+		+			+					+	+							
Ethanol	789		+		+											+				+					+	+	+									+	+	+	+				
Ethylacetat CH3 CO2 CH2 CH3	894																			+						+	+									+	+	+	+				
Ethylene C2H4	1.26	ja					+				+									+		+			+										+	+							
flour, powder, dust, soot			+				+				+																	+				+											
Flue Gas SOX, SO2, N2, O2, CO		ja													+	+				+						+	+													+			
Formic Acid HCOOH 50% 20°C	1000																			+						+	+																
Forming Gas		ja					+				+									+		+				+		+									+	+	+				
Fuel Oil	920						+									+				+	+				+		+								+	+	+	+					
gaseous, liquid, aggressive		ja													+					+						+	+											+					
Gases flammable		ja					+				+					+				+					+		+			+					+	+	+	+					
Gasoline, Dieseloil, Fuels	800						+													+	+					+	+								+	+	+	+	+				
Glycerine aqueous, H2O with C3H8O3	1260						+														+				+																		
granules, sand, gravel, chalk			+				+				+																	+				+											
Grinding oil with dirt and abrasion particles							+														+				+			+															
HCL Hydrogen chloride gas	1.64	ja					+													+						+		+															

[illegible]

			Material Sealing																				Material Housing																						
Media	Density (kg/m³)	Gaseous	EPDM -30°C 140°C	EPDM/EPDM -30°C 140°C	EPDM/PTFE -30°C 120°C	FFKM -15°C 200°C	FKM -30°C 140°C	FKM/FKM -30°C 120°C	Metal -40°C 300°C	Metal/HP -40°C 80°C	Metal/Wills® -20°C 400°C	NBR -10°C 80°C	NBR/NBR -10°C 80°C	PCTFE -200°C 80°C	PEEKHT -40°C 250°C	Peek/PCTFE -40°C 80°C	PEEK/PCTFE-HP -196°C 140°C	PEEK/UMW/PE -10°C 90°C	POM -10°C 90°C	PTFE -196°C 230°C	PTFE/FKM -10°C 150°C	PTFE/NBR -10°C 80°C	PTFE/Peek -10°C 80°C	PTFE/Silikon -40°C 230°C	AlSi 304 - 1.1301 -196°C 250°C	AlSi 316 - 1.1408 -196°C 300°C	AlSi 316 Ti - 1.1571(03) -196°C 300°C	AlSi 316L - 1.1404 -196°C 180°C	AlSi 316L - 1.4435 -40°C 250°C	AlSi 318LN - 1.4462 -40°C 250°C	AlSi 316SM - 1.4418 -40°C 80°C	aluminium AL anodised	CC-499K red brass -40°C 200°C	CV60 7N brass -196°C 300°C	EN-GJL250 grey cast -10°C 300°C	EN-GP240GH cast steel -20°C 300°C	EN-JS1025 ductile iron -10°C 300°C	P250GH+N - C22.8 PN160 -10°C 300°C	PTFE Polytetrafluoroethylene	PVC J Polyvinyl chloride					
Nitrogen dioxide NO2	2.053																			+					+	+	+																		
Nitrogen Gas N2	1.25	ja	+					+		+		+					+		+	+	+	+			+		+	+		+			+	+	+	+	+								
Nitrogen oxides, nitrous gases NOx		ja															+			+					+	+	+																		
Nitrous Oxide N2O	2	ja						+		+							+			+	+				+		+	+		+					+		+								
Odorant		ja				+											+			+					+		+			+															
Oxygen Liquid, -183°C LOX	1140																			+							+	+									+								
Oxygen O2	1.43	ja						+									+			+	+				+	+	+			+					+	+	+	+	+	+					
paint, ink - highly viscous			+					+				+									+							+			+					+									
Phenol, Carbollic Acid - diluted with water						+														+							+	+																	
Propane/Butane gaseous C3H8	2	ja						+				+					+			+	+				+	+	+			+					+	+	+	+	+	+					
Propionic acid C3H6O2	990							+												+	+				+	+	+																		
propylene glycol C3H8O2								+				+								+																+	+	+							
Propylene, Propene - C3H6	1.915	ja						+												+					+	+	+									+	+								
Rape Oil								+												+							+									+	+	+	+						
refrigerant R290, R600a																				+						+	+	+								+	+								
Refrigerant R407C	2.51	ja																		+						+	+	+								+	+								
Resins								+												+	+				+	+	+																		
sea water	1000																																												
sewage gas, proportionally H2S, NH3	0.77	ja	+																								+																		
silan gas	1.34	ja						+												+	+				+	+	+																		
slurry of chalk								+																	+											+									
Sodium hydroxide (sodium hydroxide), NaOH, 30%, +20°C			+																	+						+	+																		
sodium hypochlorite NaOCl (Chlorine bleach) max. 12%, +20°C																				+						+																			
Sodium nitrite - aqueous NaNO2	1290							+				+								+						+	+	+																	
Sodium Phosphate NA3PO4								+									+			+	+					+	+	+		+															

			Material Sealing																		Material Housing																							
Media	Density (kg/m³)	Gaseous	EPDM -30°C 140°C	EPDM/EPDM -30°C 140°C	EPDM/PTFE -30°C 120°C	FFKM -15°C 200°C	FKM -10°C 140°C	FKM/FFKM -10°C 120°C	Metal -40°C 300°C	Metal/HP -40°C 80°C	Metal/Willis® -20°C 400°C	NBR -10°C 80°C	NBR/NBR -10°C 80°C	PCTFE -200°C 80°C	PEEK/HT -40°C 250°C	Peek/PCTFE -40°C 80°C	PEEK/PCTFE-HP -196°C 140°C	PEEK/UHMW/PE	POM -10°C 90°C	PTFE -196°C 230°C	PTFE/FKM -10°C 150°C	PTFE/NBR -10°C 80°C	PTFE/Peek -10°C 80°C	PTFE/Silikon -40°C 250°C	AlSi 304 - 1.4301 -196°C 250°C	AlSi 316 - 1.4408 -196°C 300°C	AlSi 316 Ti - 1.4571 (81) -196°C 300°C	AlSi 316L - 1.4404 -196°C 80°C	AlSi 316L - 1.4435 -40°C 250°C	AlSi 318LN - 1.4462 -40°C 250°C	AlSi 5165M - 1.4418 -40°C 80°C	aluminium AL anodised	CC-609K red brass -40°C 200°C	CW617N brass -196°C 300°C	EN-GJL250 grey cast -10°C 300°C	EN-GP240GH cast steel -20°C 300°C	EN-JS1025 ductile iron -10°C 300°C	P250GH+N - C22.8 PN160 -10°C 300°C	PTFE Polytetrafluoroethylene	PVC Polyvinyl chloride				
sodium silicate (waterglass)	1000			+								+									+	+			+	+	+																	
Sole (cooling sole) up to 40%			+									+																							+									
Steam 110°C	0.6		+																		+	+				+	+	+								+	+	+						
Steam 180°C	0.6	ja																			+	+					+	+							+	+	+	+	+					
Steam 200°C																					+	+					+	+							+	+		+						
Steam 230°C															+												+	+								+		+						
Steam 250°C									+		+				+												+	+							+		+							
Steam 300°C									+		+																+	+										+						
Sulfur Dioxide Gaseous, dry SO2	2.93	ja																			+							+																
Sulfur Dioxide Gaseous, wet, SO2	2.93	ja																			+							+																
Sulfur Dioxide Liquid SO2																					+					+	+	+																
Sulfuric acid H2SO4 max. 10%, 20°C	1.6	ja					+																					+																
Tetraflourmethane CF4, gas	1.69	ja																			+					+		+																
Thermal-Oil >180°C	1000																				+	+					+	+							+	+	+	+	+					
Thermal-Oil >200°C	1000																				+								+							+		+						
Thermal-Oil >230°C	1000														+												+	+								+		+						
Thermal-Oil >250°C	1000							+		+					+												+	+								+		+						
Thermal-Oil >300°C	1000									+																	+	+									+							
Toluol C6H5CH3	867																				+					+		+								+								
Triglycole, Triethylenglycole C6H14O4	1100						+														+						+	+																
Urea	1300						+														+						+	+																
Vacuum	1.2	ja	+	+			+	+				+	+														+	+							+	+	+	+						
Vacuum + Pressure		ja	+	+				+				+	+								+						+	+							+	+	+	+						
vapour aggressive (natural gas + steam)	0.9	ja				+															+						+	+																
Water demineralised, Osmose	1000		+				+														+	+				+	+	+								+								

Media	Density (kg/m³)	Gaseous	Material Sealing																Material Housing																								
			-30°C 140°C EPDM	-30°C 140°C EPDM/EPDM	-30°C 120°C EPDM/PTFE	-15°C 200°C FFKM	-10°C 140°C FKM	-10°C 120°C FKM/FKM	-40°C 300°C Metall	-40°C 80°C Metall/HP	-20°C 400°C Metall/Villis®	-10°C 80°C NBR	-10°C 80°C NBR/NBR	-200°C 80°C PCTFE	-40°C 250°C PEEK/HT	-40°C 80°C PEEK/PCTFE	-196°C 140°C PEEK/PCTFE-HP	PEEK/UMW/PE	-10°C 90°C POM	-196°C 230°C PTFE	-10°C 150°C PTFE/FKM	-10°C 80°C PTFE/NBR	-10°C 80°C PTFE/peek	-40°C 250°C PTFE/Silikon	-196°C 250°C AlSi 304 - 1.4301	-196°C 300°C AlSi 316 - 1.4408	-196°C 300°C AlSi 316 Ti - 1.4571 (81)	-196°C 80°C AlSi 316L - 1.4404	-40°C 250°C AlSi 316L - 1.4435	-40°C 250°C AlSi 318LN - 1.4462	-40°C 80°C AlSi 5165M - 1.4418	aluminium AL anodised	-40°C 200°C CC499K red brass	-196°C 300°C CW617N brass	-10°C 300°C EN-GJL250 grey cast	-20°C 300°C EN-GP240GH cast steel	-10°C 300°C EN-1S1025 ductile iron	-10°C 300°C P250GH4+N - C22.8 PN160	PTFE Polytetrafluoroethylene	PVC Polyvinyl chloride			
Water H2O with Glycole	1000		+				+	+			+					+				+	+				+	+	+																
Water, H2O	1000		+		+		+	+			+	+				+				+	+		+	+		+	+	+							+	+	+	+	+	+			
Water, Hot above 90°C H2O	1000		+				+	+												+	+				+		+								+	+	+	+	+				