



		Carbon / Graphite						PTFE						PTFE / Aramid			Aramid				Glass		Others					Tank lid				
style		2000/2010	2202	2201	2001	2200	2235	2103	2005FDA	2006FDA	2024	2124	2076	2007	2022	2060*	2017	2070*	2004	2030	2044	2048	2026	2027	2127	2422	2700	2777	2500	style		
filament		exp. Graphite	exp. Graphite/Carbon	Carbon	Graphite	Carbon	exp. Graphite/Incone®	Preox	PTFE	PTFE	PTFE-extrud.	PTFE	gPTFE	gPTFE	PTFE-extrud.	PTFE aram.	gPTFE-Aramid	gPTFE-Aramid	Aramid	Meta-Aramid	spun Aramid	spun Aramid	Glass	Glass	Acrylic	Ramie	Polyimid	Novoloid	Synthetic/PTFE	filament		
impregnation				Graphite	Graphite	Graphite	Graphite	Graphite	PTFE	PTFE					Graphite		PTFE		PTFE	PTFE	PTFE	Graphite	PTFE	Graphite	PTFE	PTFE	PTFE	PTFE	PTFE	impregnation		
lubricant				yes						yes	yes			silicone	yes	yes	silicone	silicone	silicone	yes	yes	yes	yes		silicone	yes	silicone	yes	yes		lubricant	
bar	rot.	30	30	35	30	25		25	20	20	10			35	25	35	30	35	35	35	20	20	15		20	20	25	25		bar	rot.	
bar	osc.	100	200	100	100	100			150	30			200	100		250	200	250	200	150	80	80	20		80	20	25	50		bar	osc.	
bar	stat.	300	300	200	300	300	450	100	250		20	100	250	200	100	250	200	250	250	200	150	150	150	150	100	30	200	100	2	bar	stat.	
m/s	v	30/20	20	25	20	20		15	5	12	4		5	25	12	12	20	25	15	15	15	20	8		12	10	15	15		m/s	v	
°C	–	–240	–240	–50	–240	–240	–240		–200	–100	–100	–100	–200	–200	–100	–100	–100	–100	–100	–100	–100	–100	–40		–100		–100	–100	–40	°C	–	
°C	+	+450	+450	+300	+450	+450	+450	+300	+280	+280	+250	+280	+280	+280	+280	+280	+280	+280	+280	+290	+280	+280	+280	+550	+230	+130	+260	+250	+120	°C	+	
°C	steam	+650 <sup>1)</sup>	+650	+300	+650	+650	+650																	+200						°C	steam	
pH value		0 - 14	0 - 14	0 - 14	0 - 14	0 - 14	0 - 14	3 - 12	0 - 14	0 - 14	0 - 14	0 - 14	0 - 14	0 - 14	0 - 14	0 - 14	2 - 12	0 - 14	2 - 12	1 - 13	2 - 12	2 - 12	3 - 12	4 - 11	2 - 12	5 - 11	0 - 12	1 - 13	1 - 14	pH value		
density: app. g/cm³		1,0	1,1	1,4	0,9	1,1	1,6	0,9	1,7	1,8	1,9	1,6	1,4	1,6	1,9	1,6	1,5	1,6	1,5	1,5	1,4	1,2	2	1,5	1,5	1,5	1,5	1,3		density: app. g/cm³		
water		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		water	
steam		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	●		●	●	●		steam	
neutr. solutions		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●		neutr. solutions	
highly diluted acids		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	○	●	○	●		highly diluted acids	
concentrated acids		●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	○	●	○	○	○	○		○			●		●		concentrated acids	
highly concentradet acids		○	○	○	○	○	○		●	●	●	●	●	●	●	●		●									○		●		highly concentradet acids	
diluted alkalis		●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●	●	○	○	●	●	●		diluted alkalis	
concentrated alkalis		●	●	●	●	●	●		●	●	●	●	●	●	●	●		●									●		●		concentrated alkalis	
inert gas		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●	●		inert gas	
acidic gas		●	●	●	●	●	●	○	●	●	●	●	●	●	●	●	○	●	○	○	○		○		○		●		●		acidic gas	
hydrogen		○	○				○		●	○	●	●	●	●	●	○	○	●		○	○		○	○				○	○		hydrogen	
oxygen		● / ○	○				○					●	●				○	○	●		○	○							○	○	oxygen	
volatile hydrocarbon		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●		○	○		○	○			●	○	●		volatile hydrocarbon	
solvents		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	●	●		○	○	●		●	●	●		solvents	
amines, nitriles		●	○		○		●		●	●	●	●	●	●	●	●	●	●	○	○	○						●		●		amines, nitriles	
mineral oil, grease		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		mineral oil, grease	
synth. oils		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				●		●	●	●		synth. oils	
abrasive media			○						○	○	●	○	○	○	●	●	●	●	●	●	●			○	○	○	○	●	○		abrasive media	
bitumen									○	○	●	○	○	○	●	●	●	●	●	●	●			○		○	○	●	○		bitumen	
paints, varnishes		●	●	●	●	●	●	●	●	●	○	●	●		○	●	●	●		●	●								●	●		paints, varnishes
approvals <sup>2)</sup>		BAM / —						Fire Safe API 589		FDA, BAM, WRc		FDA		BAM		FMPA,BAM		FMPA, WRc						WRc		FMPA		RINA		approvals <sup>2)</sup>		

Glossary: ● recommended ○ limited usability

1) with inert gas up to 1000 °C

All technical data and recommendations given are based on our experiences. However, we do not undertake any liability whatsoever. All data and values have to be checked by the user, since the effectiveness of a seal can only be judged correctly by evaluating all data and parameters directly on site. The stated parameters of all packing styles are approximate and may be mutually influenced if occuring together. We suggest you contact us in the case of special applications.

Glossary: ● recommended ○ limited usability

2) Check the correct operating parameters and special indications regarding this approval in the respective approval document of this style