




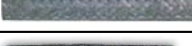
































TEMAPACK GLAND PACKINGS

For pumps and armatures




	TEMAPACK			Pressure max. (bar)			Temperature (°C)		Speed (m/s)		pH	Application
	Type		Material description				Min.	Max.				
CARBON	7100		with PTFE impregnation	30	100	200	-200	+300	15	-	0-14	water, weak acids and alkalis, paper industry
	7000		with graphite impregnation	30	200	300	-200	+450 ¹⁾ +650 ²⁾	15	-	0-14	hot water, steam, gases, oils, solvents
EXPANDED GRAPHITE	6500		with PTFE impregnation	20	100	300	-200	+280	20	2	0-14	chemical, petrochemical
	6400		with inhibitor of corrosion	20	100	300	-220	+450 ¹⁾ +550 ²⁾	10	2	0-14	petrochemical, refinery, power stations, inert gases +2000°C
	6300		pressed rings from graphite foil in density of 1,2-1,8g/cm ³	-	30	500	-220	+450 ¹⁾ +550 ²⁾	-	2	0-14	nuclear power station, steam, inert gases +3000°C
	6210		each yarn reinforced with SS-wire mesh	-	-	500	-220	+450 ¹⁾ +650 ²⁾	-	-	0-14	gaseous steam, chemistry, especially for close rings in valves, inert gases +1000°C
	6200		each yarn reinforced with SS-wire	30	250	500	-220	+450 ¹⁾ +650 ²⁾	5	2	0-14	heat and power stations, refinery, chemistry, inert gases +1000°C
	6100		pure yarn without additives	20	100	250	-220	+450 ¹⁾ +550 ²⁾	10	1,5	0-14	power station, chemical industry, heat station, inert gases +1000°C
PTFE	5410		PTFE/graphite yarn, - an equivalent for 5400	20	150	200	-100	+280	24	2	0-14	petrochemical, hot water, papermill, chemistry
	5400		yarn GORE GFO - PTFE/graphite for pumps	20	150	200	-100	+280	25	2	0-14	foodstuff, pharmacy, chemistry, for pumps
	5300		yarn GORE G4 - PTFE/graphite for high pressure	-	300	600	-100	+280	-	2	0-14	especially for high pressures, for piston pumps and valves
	5200		with PTFE impregnation and with silicon oil	15	150	-	-200	+280	10	2	0-12	chemistry, power and heat stations, piston pumps
	5110		pure washed yarn with PTFE impregnation	-	150	250	-200	+280	-	-	0-14	especially for oxygen, foodstuff, pharmacy, aggressive chemistry
	5100		with PTFE impregnation only	-	150	250	-200	+280	-	-	0-14	drinking water, chemistry, sugar refinery, papermill
PTFE+ARAMID	4220		design Zebra PTFE/GR + aramid + silicon oil	20	150	200	-100	+280	20	-	3-12	mining, abrasive medium, bilge and waste water
	4210		PTFE/graphite + aramid reinforcement in corners + silicon oil	20	200	300	-100	+280	20	2	3-12	abrasive medium, papermill, cementary, mines
	4200		PTFE/aramid/graphite + PTFE impregnation + silicon oil	20	200	250	-100	+280	20	5	3-12	servicing pumps, abrasive medium, papermills, slurries
	4120		design Zebra PTFE + aramid with paraffin oil	20	200	300	-100	+280	10	2	3-12	cement mill, abrasive medium, waste water
	4110		PTFE + aramid reinforcement in corners + paraffin oil	20	200	300	-100	+280	10	2	3-12	abrasive medium, papermills, sugar refinery, mines
	4100		with PTFE impregnation and paraffin oil	20	100	180	-100	+280	10	2	3-12	grinding and abrasive medium, oils, slurries
ARAMID	3300		aramid staple yarn + PTFE impregnation + silicon oil	25	100	100	-100	+280	20	1,5	2-12	inert gases, oils, abrasive medium, solvents
	3200		continuous aramid with PTFE impregnation + silicon oil	25	100	100	-100	+280	20	1,5	3-12	grinding medium, bitumen, steam, neural solvents
	3100		continuous aramid with PTFE impregnation + paraffin oil	25	100	100	-100	+280	20	1,5	3-12	strong abrasive medium, slurries, sludges, slags
ACRYLIC	2230		with graphite - tallow impregnation	20	20	50	-10	+180	8	1,5	4-10	oils, steam, solvents, neutral solutions
	2220		with PTFE - graphite impregnation	20	20	50	-50	+180	10	2	2-12	steam, water, weak acids, oils, neutral solvents
	2210		with PTFE impregnation	20	20	80	-50	+180	10	2	2-12	weak acids, water, foodstuff, solvents
100% COTTON	1140		with PTFE impregnation	10	50	50	-10	+100	5	1	6-9	osmotic and drinking water, foodstuff, weak acids
	1130		with graphite - tallow impregnation	10	50	50	-10	+100	4	1	6-9	neutral solutions, water, gases, steam
	1120		with tallow and red ferrous impregnation	10	50	50	-10	+80	3	1	6-9	cold, supply and pumping water, for autoclaves
	1110		with tallow impregnation	10	50	50	-10	+80	3	1	6-9	foodstuffs, drinking water, neutral solutions
100% RAMIE	1180		with graphite - tallow impregnation	20	30	40	-20	+120	10	5	4-10	sea water, oils, waste water, greases
	1170		with PTFE impregnation and mineral oil	35	50	60	-30	+180	13	5	2-12	papermills, sea water, drinking water, waste water
	1160		with tallow impregnation	15	30	30	-20	+120	8	3	4-8	sea water, drinking water, foodstuffs
GLASS	0021		with impregnation petroleum oil, wax and graphite	-	-	140	-40	+280	-	2	3-12	neutral solutions, oils, gases, weak alkalis
	0011		with PTFE impregnation	100	-	140	-40	+280	8	2	3-12	mineral and synthetic oils, steam, weak acids

 centrifugal pump  piston pump  armatura ¹⁾ oxidation gases values ²⁾ steam values

Standard packaging

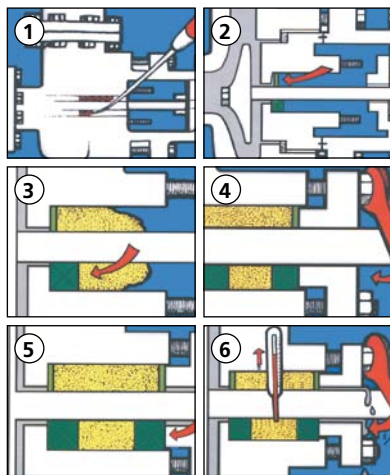
Size ϕ [mm]	3	4	5	6	8	10	12	14	15	16	18	19	20	22	24	25
Size of Coil (ϕ x length)	200 x 100						350 x 150					350 x 250				
Length in the Winding [m]	240	120	80	60	30	20	60	45	40	40	30	25	25	20	15	15
Approx. Weight [kg]	3,5	3	3	3	3,5	3	12	12	12	13	13,5	13,5	13,5	13,5	13,5	13,5

INJECTABLE PACKINGS - TEMPACK

TEMPACK		Pressure max. (bar)			Temperature (°C)		Speed (m/s)		pH	Application
Type		Ø	≡	⊕	Min.	Max	Ø	≡		
100		35	10	55	-10	+260	7	2	2-12	cold/hot/sewage water, steam, sludges
200		45	15	70	-10	+260	15	5	1-13	weak organic/inorganic acids, lyes
300		12	7	25	-10	+205	8	3	2-12	steam, sea water, brine, caustics

Ø centrifugal pump ≡ piston pump

⊕ armature



Mounting instructions for assembly: INJECTABLE PACKINGS

1. Remove old and lantern ring.
2. Install an anti-extrusion ring of braided packing.
3. Hand fill stuffing box with compound, using gland follower to compact.
4. Install an anti-extrusion braided packing ring at gland side and "close" with stuffing box gland.
5. Tighten gland nuts to compress the compound and start up pump or valve.
6. Gradually tighten gland nuts to achieve minimal drips or "zero leakage" where conditions permit. Appearance of light smoke indicates "brake-in" lubricant sacrifice and should be ignored.

Installation of this packing could be realized directly on the stuffing box by "injector". This device allows the operator a tremendous saving of time and work with always optimal results till the "zero-leakage".



Extractors		
Size	Lenght	Diameter
1	216 mm	5 mm
2	292 mm	6,5 mm
3	386 mm	9,5 mm
4	406 mm	12 mm

Coefficient value „k“	
shaft diameter d (mm)	k
0-60	1,1
60-100	1,07
more than 100	1,04

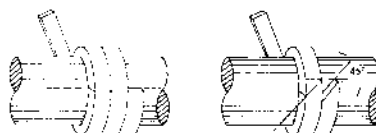
Mounting instructions for assembly: GLAND PACKINGS

The correct installation of the packing ring into gland housing is essential for a long trouble free life.

1. Remove old packing using an extractor and thoroughly clean the gland housing.
2. Check the shaft for any lateral movement and excessive wear. Ensure the gap between shaft and housing is minimal. The max. gap must not exceed 3,0% of packing width. The maximum movement of shaft must not exceed 0,1% of the shaft diameter.
3. Cut the packing with a butt or skive joint (see bellow) to the correct length. Be sure the first ring is cut carefully and tested on the shaft. Fit and tamp the rings one by one with 180 or 90 degrs. staggered joints.
4. Use the packing cutter TEMAC or alternatively place the packing round the shaft or a mandrel of the specified diameter.
5. Packing length calculation - the packing length is calculated in the following manner:

$$L = (D + d) \times k \times \pi/2$$

L - packing ring length; D - stuffing box diameter;
d - shaft diameter; k - coefficient



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