

GORE® Universal Pipe Gasket

Global Case Histories

1/5

Case #	Application	Medium	Pressure	Temperature
1	FRP	HCL	80 psi	120 F
2	FRP	Sodium Hydroxide	100 psi	100 F
3	FRP	Chlorine	60 psi	100 F
4	Steel	Potassium Carbonate	100 psi	120 F
5	FRP	Sodium Chloride	80 psi	150 F
6	Steel Barge Loading	Chlorine	120 psi	100 F
7	Dual Laminate FRP	HCL	60 psi	100 F
8	FRP	Brine	100 psi	60 F
9	Smith Fibercast FRP	Brine	60 psi	Ambient
10	FRP	33% HCL	80 psi	100 F
11	Steel	Amines Plant	80 psi	120 F
12	Steel	Hydrogen Peroxide	80 psi	100 F
13	Steel	Steam	250 psi	300 F
14	FRP	HCL	100 psi	140 F
15	Glass Lined Steel	Acids	100 psi	100 F
16	Steel	Steam	275 psi	350 F
17	Steel	Steam	250 psi	300 F
18	Steel	Sodium Hydroxide	70 psi	150 F
19	Piping Steel DN50	Metylethyl-carton	2-3 psi	Ambient
20	Steel DN50-80	Acrylic Acid	2 – 3 psi	20 F
21	Steel DN25-50	Ebichloor-hydrine	2-3 psi	Ambient
22	PVC-GFK DN100	Sulfuric Acid	2 psi	40 F
23	Steel 2"-4"	Glyphosfaat	< 10 psi	60 F
24	Steel 1"-3"	Steam	10 psi	180 F
25	Steel 1"-3"	Acetic Acid	4 psi	30 – 40 F
26	Steel 1"-3"	Natronloog; Sodium Hydroxide	4 psi	Ambient
27	Steel 1"-3"	Propionic Acid	4 bar	Ambient
28	Steel	Caustic Soda Alumina	10 bar max	20 C
29	Rubber Lined Pipe	Acidic Slurry (Water, HCL, traces of CL2, non-organic waste)	5 bar	50 C





GORE® Universal Pipe Gasket

2/5

30	Plastic Pipe	Pigment Slurry (TiO ₂ , traces of CL ₂)	5 bar	<100 C
31	GFK, PP & PE Piping 4"	HCL	6 bar	80 C
32	Steel Piping 1'-2"	Steam	10 bar	180 C
33	Stainless Steel DN50-80	Caprolactam Residue	4 bar	135 C
34	Stainless Steel DN50-80	Benzene / lactam solution 50 %	2 bar	75 C
35	Steel DN50-80	Caprolactam extrakt 95 %	6 bar	135 C
36	Steel DN50-80	Rough lactam	6 bar	35 C
37	Steel DN50-80	Reinlactam	1 bar	115 C
38	Steel DN50-80	Ammonium sulphate 25 %	4 bar	105 C
39	Steel DN50-80	Salt	4,5 bar	55 C
40	Steel DN50-80	Rough lactam + high concentration SO ₃	4 bar	120 C
41	Steel DN50-80	Hydroxilamine	6 bar	30 C
42	Steel DN50	Thermofluids	4 bar	Temp. cycles -30 to +150 C
43	Steel DN40-80	Ethylene Oxide	2-3 bar	0-20 C
44	Steel DN65-80	Wet Chlorine	10 bar	60 C
45	Plastic Pipe DN50-65	Chlorine Compounds	2 bar	40 C
46	Steel DN80	Plasticizers (complex organics)	PN10	40 C
47	Plastic Piping DN40-80	HCL	2 bar	35 C
48	Plastic Piping DN65-80	HCl	na	na
49	Steel Piping DN40-100	Chlorine, NaOH, Hypochlorite	PN16	70 C
50	Plastic Piping DN150	Electolyte H ₂ SO ₄ +Cu(SO ₄) ₂	4 bar	80 C
51	Steel DN50	Methylmercat (Sulpher)	3 bar	100 C
52	Steel DN50	Sulfuric Acid 90%	2 bar	35 C
53	Smith Fibercast FRP	Brine	4 bar	Ambient
54	FRP	33% HCL	5.5 bar	38 C
55	Steel	Amines Plant	5.5 bar	50 C
56	Steel	Hydrogen Peroxide	5.5 bar	38 C
57	Steel	Steam	17 bar	150 C



GORE® Universal Pipe Gasket

3/5

58	FRP	HCl	7 bar	60 C
59	Pfaudler Glass Lined Steel Column Nozzles	Methanol, HCL (20%)	16 psi	250 F
60	Kynar Lined Noxxel Pipe	Silohexane, HCL (10%)	5 psi	160 F
61	Tantalum Lined Pipe	Methyl Chloride	10 psi	212 F
62	SS Pipe	Sulfuric Acid (98%)	10 psi	100 F
63	Polyethylene Tank Nozzles	Sulfuric Acid	5 bar	Ambient
64	Pharmaceutical Steel Piping (1"-4")	Various Solvents, Hot Caustics, Acids & Steam	60 psi	257 F
65	Chemical FRP Halar Lined Piping (2" through 6")	Sodium Chlorate	60 psi	176 F
66	Pulp & Paper FRP Piping (1" through 4")	Chlorine Dioxide (CLO2)	125 psi	176 F
67	Chemical Steel & FRP Piping (1" through 10")	HCL	90 psi	122 F
68	Chemical FRP Piping (1"through 4")	Sodium Hypochlorite	60 psi	176 F
69	Chemical Steel Piping (1/2" through 4')	Acrylonitrile Latex, various Monomers	150 psi	500 F
70	Pulp & Paper Steel Piping	Sulfuric Acid, Caustic & Steam	150 psi	500 F
71	Chemical Glass Lined Steel Pipe (2")	Flurosilicones	150 psi	176 F
72	Chemical FRP Piping (2")	Chlorine	<25 psi	130 F
73	Chemical FRP Piping (2")	2 PH Brine w/Free CL2	15 psi	130 F
74	Chemical FRP Piping (4")	Sodium Carbonate	75 psi	90 F
75	Chemical FRP Piping (4")	Sodium Carbonate	76 psi	90 F
76	Chemical FRP Piping (4")	Sodium Carbonate	77 psi	90 F



Updated 3/21/2005

GORE® Universal Pipe Gasket

4/5

77	Chemical FRP Piping (2")	Chlorine Cell Effluent-9% NaOH	75 psi	120 F
78	Chemical Steel Piping	Liquid and gasous Chlorine	6 bar	150 C
79	Chemical GFK Fiberglass Piping	Liquid and gasous Chlorine	6 bar	150 C
80	Chemical Steel and PTFE Lined Pipe	Liquid and gasous Chlorine	6 bar	150 C
81	Chemical Plastic Piping DN15-DN200 & PN10-PN40	Waste Gas to ClCN washer	0 bar	Ambient
82	Chemical Plastic Piping	Chlorocyaan	.8 bar	50-60 C
83	Chemical Plastic Piping DN15-DN150	TetraChlorine Carbondioxide	2.5 bar	60 C
84	Chemical Plastic Piping DN15-DN150)	HCL 14%	2.5 bar	20 C
85	Chemical Plastic Piping	Brine (DN15-DN150)	5 bar	20 C
86	Chemical plastic Piping	Process Water	4 bar	20 C
87	Chemical Plastic Piping	Waste Water PH7	4 bar	20 C
88	Chemical PVDF Piping (DN150)	Sulfuric Acid w/High concentration Peroxides	2 bar	70 C
89	Chemical Stainless Steel Piping	Sulpher (Methylmercate)	2 bar	70 C
90	Chemical Stainless Steel Piping	Sulfuric Acid (90%)	6 bar	35 C
91	Mining Gold Steel Piping (1"-24")	Sulfuric Acid	100 psi	250 F
92	Mining Copper Mondi Piping (2"-8" & 24")	Sulfuric Acid	100 psi	250 F
93	Mining copper Steel Piping (1/2" - 8")	Sulfuric Acid	100 psi	250 F



GORE® Universal Pipe Gasket

5/5

94	Mining Copper Steel Piping (1"-8")	Sulfuric Acid, Caustic, Phosphoric Acid	150 psi	250 F
95	Mining Copper Steel Piping (1"-20")	Sulfuric Acid, Nitric Acid, Phosphoric Acid	150 psi	250 F
96	Chemical Steel Piping (1"-18")	Coconut Oils, Fatty Acids & Steam	200 psi	350 F
97	Chemical Steel Piping (1"-12")	Ozone, Steam	100 psi	350 F
98	Chemical Graphite Piping (3"-4")	HCL	100 psi	350 F
99	Chemical Steel Piping (1/2"-2")	Sulpheric Acid	100 psi	250 F
100	Pulp & Paper FRP Piping	Chlorine Dioxide (ClO2)	60 psi	100 F
101	Pulp & Paper Steel Piping	Chlorine Railcar unloading station	60 psi	Ambient
102	Mining Steel Piping	High Pressure Steam Steam Condensate	600 psi	480 F
103	Mining Steel Piping	Feed Water Turbine Steam Condensate	600 psi	480 F



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