	ARGAL pumps	TMR - ZMR		Chemical Resistance List					GFR-PP (WR)		CFF E-CTFE (GF - GX)		EPDM (E)		FKM (V)		int. structure (N - R - X) or mech. seals (SF1 - TS5/6) (MSFA-MTSC/D)
Ref. N.	Medium	Synonymus		Formula	Specific gravity	Melting point	boiling point	Concentration	Resistant	Not Resistant	Resistant	Not Resistant	Resistant	Not Resistant	Resistant	Not Resistant	Resistant
1	acetaldehyde	ethanale		CH_3-COH	0,8		20,2	40%, aqueous solution	20	40	20	80	80		40	80	yes
2	acetaldehyde							technically pure	(20)	40	20	40	20	60	(20)	40	yes
3	acetic acid	ethanoic acid		CH_3.COOH	1,0	16,6		10%, aqueous	80		100		40	(60)	(20)	40	yes
4	acetic acid							50%, aqueous	60		100		20		(20)		yes
5	acetic acid							technically pure, glacial	40	60	100		(20)		-	20	yes
6	acetic acid anhydride			$(CH_3CO)2O$	1,1			technically pure	20	(40)	20		(20)		-	20	yes
7	acetone			$CH_3.CO.CH_3$	0,79		56,2	up to10%, aqueous	60		80		60		(40)	60	yes
8	acetone							technically pure	40		80	100	60		-	20	yes
9	acetyl chloride			CH_3CO-Cl	1,11		51	technically pure	40		60		-	20	-	20	yes
10	acrylic nitrile	vinyl cyanide		CH_2:CH-CN	0,81		77,3	technically pure	20	(40)	20		40	(60)	(40)	60	yes
11	allyl alcohol	propenol		CH_2:CH-CH_2OH	0,86		97,1	technically pure	60		80		(60)	80	(20)	40	yes
12	aluminium chloride			$AlCl_3.6H2O$	1,05*			10%, aqueous	60		120		60		100		yes
13	aluminium chloride				1,58*			saturated	80	(100)	120		100		100		yes
14	aluminium sulphate			$Al_2(SO_4)_3.18H_2O$	1,7	86,5		10%, aqueous	100		120		60		80		yes
15	aluminium sulphate							cold saturated, aqueous	80		120		60		80		yes
16	ammonium acetate			$NH_4C_2H_3O_2$	1,1	114		all, aqueous	100		60		60	(80)	60		yes
17	ammonium bifluoride			NH4F.HF	1,2	80		50%, aqueous	-	20	120		20		20		see notes
18	ammonium carbonate			$(NH_4)_2CO_3.H_2O$	1,1	58		50%, aqueous	100		120		80		80		yes
19	ammonium hydroxide	ammonia water		NH_4OH	1,1		38	cold saturated, aqueous	60		120		80	(100)	-	20	see notes
20	ammonium nitrate		beta	NH_4NO_3	1,7	170		aqueous, all/saturated	60	(80)	120		60		80		yes
21	ammonium phosphate			$NH_4H_2PO_4$	1,8	110		all, aqueous	100		120		80		100		yes
22	ammonium sulphate			$(NH_4)_2SO_4$	1,8			aqueous, all/saturated	100		120		80		100		yes
23	ammonium sulphide			$(NH_4)_2S$	1,2			50%, aqueous	60		120		60		20	60	yes
24	amyl acetate			CH_3CO_2-C_5H_{11}	0,88			technically pure	(40)	60	40	(80)	(20)		-	20	yes
25	amyl alcohol			$CH_3(CH_2)_3$-CH_2OH	0,82			technically pure	80		120		60		(20)		yes
26	amyl chloride			$CH_3(CH_2)_3$-CH_2Cl	0,88		108,4	technically pure	-	20	120		-	20	20		yes
27	aniline	aminobenzene		C_6H_5-NH_2	1,0	-6,1		technically pure	(20)		100	(120)	-	20	(60)		yes
28	antimony trichloride			$SbCl_3$	2,7*	73,4		90%, aqueous	60		20		20		20		see notes
29	aqua regia	mixed acid (chloro-nitric)	80:20	HCl+HNO_3	1,5		81	usual comm.	-	20	100		-	20		(20)	yes
30	arsenic acid		orto	H_2AsO_4._H_2O	2*	35,5		80%, aqueous	80		120		80		100		yes
31	barium hydroxide			$Ba(OH)_2.8H_2O$	2,2	77,9		aqueous, saturated	40		120		80		80		see notes
32	barium nitrate			$Ba(NO_3)_2$	3,2			all, aqueous	80		120		80		80		yes
33	benzaldehyde			C_6H_5-CH:O	1,0			aqueous, saturated	20		40	(80)	60		60		yes
34	benzene	benzol		C_6H_6	0,88	5,5	80,1	technically pure	(20)	40	40	(60)	-	20	20		yes
35	benzyl alcohol	phenyl carbinol		C_6H_5-CH_2OH	1,05	-15,2		technically pure	40	(60)	120		-	20	20		yes
36	boric acid			H_3BO_3	1,4			all, aqueous	100		120		80		100		yes
37	bromine			Br_2	3,1		58,8	technically pure	-	20	60		-	20	20		see notes
38	bromine water			$Br_2.10H2O$	2,0	6,8		aqueous, saturated	-	20	100		-	20	20		see notes
39	butyl acetate		n	CH_3CO_2-$(CH_2)_2$-C_2H_5	0,88			technically pure	(20)		20	(40)	20	40	(20)	40	yes
40	butyl alcohol	butanol	n	C_2H_5-CH_2-CH_2OH	0,81		118	technically pure	40	80	120		60		20	60	yes
41	butyric acid	butanoic acid	n	C_2H_5-CH_2-CO_2H	0,96	-5,5		technically pure	20		120		(20)		(20)		yes
42	calcium bisulphite			$Ca(HSO_3)_2$	1,6			cold saturated, aqueous	80		120		20		80		yes
43	calcium chloride			$CaCl_2$	1,5*			aqueous, saturated	100		120		80	(100)	100		yes
44	calcium hydroxide			$Ca(OH)_2$	1,0*			aqueous, saturated	60		120		80		100		see notes
45	calcium hypochloride			$Ca(ClO)2.4H_2O$	1,9			cold saturated, aqueous	60		120		60		20	60	see notes
46	calcium nitrate			$Ca(NO_3)_2.4H_2O$	1,3*	42,7		50%, aqueous	60		120		60		80		yes
47	carbon disulphide			CS_2	1,3		46,3	technically pure	(20)		20		-	20	20		yes
48	carbon tetrachloride			CCl_4	1,6		76,8	technically pure	-	20	120		-	20	60		yes
49	chloracetic acid		alfa	$ClCH_2$-CO-OH	1,25*	65,8		50%, aqueous	60		100		(20)		(20)		yes
50	chlorine water			$Cl_2.8H_2O$	1,2	9,5		saturated	(20)		100		(20)		(20)		yes
51	chlorosulphonic acid			HO.SO_2.Cl	1,8			technically pure	-	20	60		-	20	-	20	see notes
52	chromic acid			$CrO_3.H_2O$	2,7			up to 50%, aqueous	-	20	100		(60)		60		yes
53	chromic acid				1,7*			60%, aqueous	-	20	100		(20)		40	(60)	see notes
54	cresol	methyl phenol	m	CH_3-C_6H_4-OH	1,03	11,9		cold saturated, aqueous	40		100	(120)	-	20	40		yes
55	cupric chloride			$CuCl_2$	3,1			all, aqueous	20	60	120		80		80		yes
56	cupric sulphate			$CuSO_4.5H_2O$	2,3	110		all, aqueous	20	60	120		80		80		yes
57	detergents								80		120		80		80		yes
58	dibuthyl ketone		iso	$(C_4H_9)_2CO$	0,81			technically pure	(20)	40	60		(20)		-	20	yes
59	dibutyl phtalate			$C_6H_4(CO_2C_4H_9)_2$	1,05			technically pure	20	(60)	40	60	(20)		(20)		yes
60	dichlobenzene		o	$C_6H_4Cl_2$	1,31	-17,2		technically pure	(20)		20	(40)	-	20	20		yes
61	dichloracetic acid			Cl_2CH-CO_2H	1,56	9,7		technically pure	20		60		60		20	60	yes
62	dichloroethane	ethylene chloride		CH_3-$CHCl_2$	1,18		57,3	technically pure	20		120		60		(40)	60	yes
63	dichloroethylene	dichloethene		CH_2:CCl_2	1,28		55	technically pure	(20)		20	(80)	-	20	(20)		yes
64	diesel fuel								(20)		120		-	20	40		yes
65	diethylamine			$(C_2H_5)_2NH$	0,71		55,5	technically pure	20		20	60	(20)		-	20	yes
66	dimethylamine			$(CH_3)_2NH+H_2O$	0,9		51	technically pure	20		20	(40)	(20)		-	20	yes
67	ethyl acetate	acetic ether		CH_3CO_2-C_2H_5	0,9		77,2	technically pure	20	(60)	40	(80)	(60)		-	20	yes
68	ethyl alcohol	ethanol		CH_3-CH_2OH	0,79		78,4	technically pure, 96%	80		120		80		(60)		yes
69	ethyl ether		alfa	$(C_2H_3)_2O$	0,71		34,6	technically pure	20		40		-	20	-	20	yes
70	ethylene chloride			$ClCH_2$-CH_2Cl	1,3		83,5	technically pure	(20)		120		(40)	60	40	(60)	yes
71	ethylene chlorohydrin	chloroethanol		$ClCH_2$-CH_2OH	1,20			technically pure	20	60	20	(40)	20		40		yes
72	ethylene diamine			NH_2-CH_2-CH_2-NH_2	0,9	8,5		technically pure	20		20	(40)	60		(40)	60	yes

	ARGAL pumps	TMR - ZMR		Chemical Resistance List					GFR-PP (WR)		CFF E-CTFE (GF - GX)		EPDM (E)		FKM (V)		int. structure (N - R - X) or mech. seals (SF1 - TS5/6) (MSFA-MTSC/D)
Ref. N.	Medium	Synonymus		Formula	Specific gravity	Melting point	boiling point	Concentration	Resistant	Not Resistant	Resistant	Not Resistant	Resistant	Not Resistant	Resistant	Not Resistant	Resistant
73	ethylene glycol	ethanediol		$OHCH_2{\cdot}CH_2OH$	1,1	-15,6		technically pure	100		120		60		60	(80)	yes
74	ferric chloride			$FeCl_3.6H_2O$	2,2	37		all, aqueous	80		120		80		100		yes
75	ferric nitrate			$Fe(NO_3)_3.6H_2O$	1,7	35		all, aqueous	80		120		80		100		yes
76	ferric sulphate			$Fe_2(SO_4)3$	3,1			all, aqueous	80		120		80		100		yes
77	fertilizer salts							aqueous	60		120		60		100		yes
78	fluoboric acid			HBF_4	1,4*	37		50%, aqueous	-	20	60		60		80		yes
79	fluosilicic acid			H_2SiF_6	1,3*	45		32%, aqueous	-	20	120		(40)	60	-	20	see notes
80	formic acid	methanoic acid		$H{\cdot}CO_2H$	1,22	8,4	101	up to 50%, aqueous	20	(60)	100		40	(60)	40	80	yes
81	formic acid							technically pure	20	60	100		60	(80)	20		yes
82	glycerol	glycerine		$CHOH(CH_2OH)_2$	1,26	18,2		technically pure	100		120		60	(80)	40	80	yes
83	hydrazine			$N_2H_4.H_2O$	1,03			aqueous	20		20	(60)	20		20		yes
84	hydrobromic acid			HBr	1,5*			50%, aqueous	60		120		40	80	60	100	yes
85	hydrochloric acid			HCl				5%, aqueous	60	(80)	120		80		80		yes
86	hydrochloric acid							10%, aqueous	40	(80)	120		80		80		yes
87	hydrochloric acid							30%, aqueous	20	80	120		40	(60)	40	(60)	yes
88	hydrochloric acid				1,2*			36%, aqueous	20	60	120		20	60	20	60	yes
89	hydrocyanic acid	hydrogen cyanide		HCN	0,7		25,7	technically pure	60		120		20	(20)	20	(20)	yes
90	hydrofluoric acid			HF	1,0		19,4	up to 40%, aqueous	60		120		-	20	40	(60)	yes
91	hydrofluoric acid							50%, aqueous	40		120		-		20		yes
92	hydrofluoric acid							70%, aqueous	-	20	80		-	20	20		see notes
93	hydrogen peroxide			H_2O_2	1,4	-0,9		10%, aqueous	40		40		20	60	20	60	yes
94	hydrogen peroxide							30%, aqueous	40	(60)	40		(20)	40	40	80	yes
95	hydrogen peroxide							90%, aqueous	-	20	40		(20)		(20)		yes
96	lactic acid		dl	$CH_3{\cdot}CHOH{\cdot}CO_2H$	1,25	16,8		10%, aqueous	100		60		(60)	80	20	(80)	yes
97	lead acetate			$Pb(C_2H_3O_2)_2.3H_2O$	1,26*	75		aqueous, saturated	60		120		60		60		yes
98	lithium bromide			$LiBr.2H_2O$	2,4	44		all, aqueous	40		60		20		80		yes
99	lithium chloride			LiCl	2,1			all, aqueous	(20)		60		20		40		yes
100	magnesium chloride			$MgCl_2.6H_2O$	1,6	118		all, aqueous	100		120		80		100		yes
101	manganese sulphate		-oso	$MnSO_4.4H_2O$	2,1			all, aqueous	100		120		80		100		yes
102	methil alcohol	methanol		$CH_3.OH$	0,79		64,7	all	60		120		60		(60)		yes
103	methyl acetate			$CH_3CO_2{\cdot}CH_3$	0,93		57,3	technically pure	40	(60)	60		(20)		-	20	yes
104	methyl ethyl ketone	MEK		$CH_3{\cdot}CO{\cdot}C_2H_5$	0,81		79,6	technically pure	20	(40)	40	(80)	20	(40)	-	20	yes
105	mixed acids			$H_2SO_4.H_3PO_4$				30% : 60% : H2O	20	(40)	100		40		60		yes
106	mixed acids			$H_2SO_4.HNO_3$				50% : 50%	-	20	60		(20)		-	20	see notes
107	mixed acids			$H_2SO_4.HNO_3$				10% : 87% : H2O	-	20	40		-	20	-	20	see notes
108	mixed acids			$H_2SO_4.HNO_3$				50% : 33% : H2O	-	20	60		(20)	20	20		yes
109	mixed acids			$H_2SO_4.HNO_3$				10% : 20% : H2O	-	20	80		40		60		yes
110	nickel sulphate			$NiSO_4.6H_2O$	1,25*	53,3		cold saturated, aqueous	60		120		80		100		yes
111	nitric acid			HNO_3	1,5		86	6%, aqueous	20	(60)	120		40	(60)	40	80	yes
112	nitric acid							40%, aqueous	20	40	100		40	(60)	60	(80)	yes
113	nitric acid							65%, aqueous	-	20	60		-	20	20	60	see notes
114	nitric acid							100%	-	20	40	(80)	-	20	-	20	see notes
115	nitrobenzene			$C_6H_5{\cdot}NO_2$	1,20	5,7		technically pure	40		40	(80)	-	20	(20)		yes
116	oleum			$H_2SO_4.SO_3$	1,86			10% S03	-	20	60		-	20	(20)		see notes
117	perchloric acid		73,6%	$HClO_4.2H_2O$	1,7	-17,8		10%, aqueous	40		60		60	(80)	60	(80)	see notes
118	perchloric acid							70%, aqueous	-	20	40		60	(80)	60	(80)	see notes
119	phenol	carbolic acid		$C_6H_5{\cdot}OH$	1,06	40,9		10%, aqueous	40		80	100	60	(80)	60	(80)	yes
120	phenol							90%, aqueous	40		60	(80)	-	20	20	60	yes
121	phenyl hydrazine			$C_6H_5{\cdot}NH{\cdot}NH_2$	1,10	19,6		technically pure	(20)		20		(20)		20	(60)	yes
122	phosphoric acid		orto	H_3PO_4	1,12*	42,4		up to 30%, aqueous	60		120		80	(100)	100		yes
123	phosphoric acid				1,48*			85%, aqueous	60		120		60	(80)	80	(100)	see notes
124	phosphorus oxychloride			$POCl_3$	1,7	1,2		technically pure	20	(60)	100		20		20		see notes
125	phosphorus pentoxide			P_2O_5	2,4			technically pure	20		100		60		60		yes
126	phosphorus trichloride			PCl_3	1,6		76	technically pure	20	(60)	100		20		20		see notes
127	photographic solutions							commercial	40		60		40		40		yes
128	plating solutions			Cd ; Cr ; Au					-	20	100		20		80		yes
129	plating solutions			Cu ; Pb ; Ni ; Rh ; Ag ; Sn ; Zn					20		100		20		80		yes
130	potassium carbonate	potash		$K2CO_3$	2,3			cold saturated, aqueous	60		120		40		40		yes
131	potassium chlorate			$KClO_3$	2,3			cold saturated, aqueous	60		120		80		100		see notes
132	potassium chloride			KCl	2,0			all, aqueous	100		120		100		100		yes
133	potassium chromate			K_2CrO_4	2,7			cold saturated, aqueous	40	(60)	120		60		60		yes
134	potassium cyanide			KCN	1,5			cold saturated, aqueous	60		120		80		20	60	yes
135	potassium hydroxide			KOH	1,55*			50%, aqueous	80		120		60	(80)	-	20	see notes
136	potassium nitrate			KNO_3	1,4*			50%, aqueous	60		120		60		60		yes
137	potassium perchlorate			$KClO_4$	1,02*			cold saturated, aqueous	60		20		60		80		yes
138	potassium permanganate			$KMnO_4$	1,05*			cold saturated, aqueous	60		100		60		80		see notes
139	potassium-aluminium sulphate	alum K-Al		$K_2SO_4.Al_2(SO_4)_3.24H_2O$	1,8	92		50%, aqueous	60		120		100		80		yes
140	potassium-chromium sulphate	alum K-Cr		$K_2SO_4.Cr_2(SO_4)_3.24H_2O$	1,8	89		aqueous, cold saturated	60		60		60		80		yes
141	propyl acetate		iso	$CH_3CO_2{\cdot}CH(CH_3)_2$	0,87		88,4	technically pure	-	20	40	(80)	20		-	20	yes
142	propyl alcohol	propanol	iso	$(CH_3)_2CHOH$	0,79		82,4	technically pure	100		120		60	(80)	60	(80)	yes
143	pyridine			C_5H_5N	0,98		115,5	technically pure	(60)		-	20	20	60	(20)	40	yes
144	silver nitrate			$AgNO_3$	2,2*			cold saturated, aqueous	60		120		60		60		yes

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Ref. N.	Medium	Synonymus		Formula	Specific gravity	Melting point	boiling point	Concentration	Resistant	Not Resistant	Resistant	Not Resistant	Resistant	Not Resistant	Resistant	Not Resistant	Resistant
145	sodium acetate			$NaC_2H_3O_2$	1,5			all, aqueous	100		120		60	(80)	60	(80)	yes
146	sodium bisulphate			$NaHSO_4$	1,1*			10%, aqueous	60		120		60	(80)	100		yes
147	sodium bisulphite			$NaHSO_3$	1,5	5		all, aqueous	60		120		60	100	(20)	40	yes
148	sodium bromate			$NaBrO_3$	3,3			all, aqueous	20	(40)	100		60		60		yes
149	sodium bromide			NaBr	3,2			all, aqueous	60		120		60		80		yes
150	sodium carbonate	soda		$Na2CO_3$	1,2*			cold saturated, aqueous	100		120		80		60		yes
151	sodium chloride			NaCl	2,2			all, aqueous	80		120		80	(100)	100		yes
152	sodium chromate			$Na2CrO_4$	2,7			diluted, aqueous	20	(40)	80		60		60		yes
153	sodium hydroxide			NaOH	2,13	318		up to 10%, aqueous	100		120		60		(60)		yes
154	sodium hydroxide							up to 40%, aqueous	80		100		60		(20)	40	yes
155	sodium hydroxide				1,55*			50%, aqueous	80		100		40	(60)	-	20	see notes
156	sodium hypochlorite			NaOCl	1,2*	6		12,5% active chlorine, aqueous	-	20	120		20		20		see notes
157	sodium nitrate			$NaNO_3$	1,4*			cold saturated, aqueous	60		120		60		60		yes
158	sodium phosphate		neutro	$Na_3PO_4.12H_2O$	1,6	73,4		cold saturated, aqueous	80		120		60		60		yes
159	sodium sulphate	Glauber salt		$Na_2SO_4.10H_2O$	1,5	32,4		cold saturated, aqueous	80		120		40	(60)	80		yes
160	sodium sulphide			$Na_2S.9H_2O$	1,4	50		cold saturated, aqueous	60		120		60		-	20	yes
161	sodium sulphite			Na_2SO_3	1,15*			cold saturated, aqueous	40		120		60		60		yes
162	sodium thiosulphate			$Na_2S_2O_3.5H_2O$	1,7	48		cold saturated, aqueous	60		120		60		60		yes
163	spinning bath acids (+ CS2)							CS2 : 500 mg/l	20		60		(40)		40		yes
164	stannous chloride			$SnCl_2.2H_2O$	2,4*	37,7		cold saturated, aqueous	60		120		20	60	60		yes
165	sulfuric acid			$H2SO_4$	1,84	10,4		up to 40%, aqueous	60		120		60	100	60	100	yes
166	sulfuric acid				1,7*			80%, aqueous	20	60	120		20	60	40	80	yes
167	sulfuric acid							90%, aqueous	-	20	120		(20)	40	40		see notes
168	sulfuric acid							98%, aqueous	-	20	120		-	20	40		see notes
169	tetrachloro ethane	acetylene tetrachloride	sim	$Cl_2CH{\cdot}CHCl_2$	1,6			technically pure	(20)		40		-	20	(20)		yes
170	tetrachloro ethylene	perchloroethylene		$Cl_2C{:}CCl_2$	1,63		121,2	technically pure	(20)		20		-	20	60		yes
171	toluene	methyl benzene		$CH_3{\cdot}C6H_5$	0,9		110,6	technically pure	(20)	40	40	(80)	-	20	(20)	40	yes
172	trichloro ethane	mthyl chloroform		$CH_3{\cdot}CCl_3$	1,35		74	technically pure	(20)		40	(40)	-	20	20		yes
173	trichloro ethylene	ethylene trichloride		$ClCH{:}CCl_2$	1,5		87,2	technically pure	(20)		20	(40)	-	20	20		yes
174	trichloro methane	chloroform	1.1.1	$CHCl_3$	1,5		61,2	technically pure	(20)		100		-	20	(20)		yes
175	triethanol amine			$N(CH_2{\cdot}CH_2{\cdot}OH)_3$	1,13	20		technically pure	20		20	(40)	-	20	20		yes
176	triethyl amine			$(C_2H_5)_3N$	0,7		89,4	technically pure	-	20	40	(80)	-	20	40		yes
177	urea	carbamide		$NH_2{\cdot}CO{\cdot}NH_2$	1,34	133		up to 30%, aqueous	60		100		60		60		yes
178	water			H_2O	1	0	100	distilled, deionised	100		120		80		100		yes
179	xilene	dimethyl benzene	m	$C_6H_4(CH_3)_2$	0,9			technically pure	-	20	40	(80)	-	20	20	60	yes
180	zinc acetate			$Zn(C_2H_3O_2)_2.2H_2O$	1,7		100	all, aqueous	60		120		60		60		yes
181	zinc chloride			$ZnCl_2$	2,9			all, aqueous	60		120		60		60		yes
182	zinc nitrate			$Zn(NO_3)_2.6H_2O$	2,1	36,4		all, aqueous	60		120		60		60		yes
183	zinc sulphate			$ZnSO_4.7H_2O$	2,0	39		all, aqueous	60		120		60		60		yes

Do not exceed the limit of the admitted temperatures of the pump version given in the range catalogue; "Resistant" strictly refers to chemical properties (not mechanical properties)

30	: limit of temperature (in °C) at which the material is "Resistant"
30	: limit of temperature (in °C) at which the material is "Not Resistant"
(30)	: limit of temperature (in °C) at which the material is "Conditionally Resistant"
–	: does not exist temperature at which the material is "Resistant"
	: empty space does not give any deductive information
	: empty space does not give any deductive information

Specific weight: normally refers to the chemical as indicated in formula (liquid or solid);
1,5* refers to specified concentration;
if "saturated" referred at 20 °C. boiling and melting points: refer to chemical as indicated in formula.

Temperature scale correlation (°C Celsius degree - °F Fharenheit degree):

°C	20	40	60	80	100	120	140
°F	68	104	140	176	212	248	284
°F	70	110	140	170	210	250	280
°C	21	43	60	77	99	121	138

NOTES			ref.N
CARBOGRAPHITE	Not applicable	Bromine / Fluorine	37 - 38
R1 - R2	Not applicable	Alkaline chlorate and hypochlorites	45 - 131 - 156
	Unadvised	Concentrated (Cr, F, N, S, Cl+S) acid	51- 53- 92- 106-107- 113-114- 116- 167-168
	Unadvised	(P, Sb)-chloride compounds;	28 - 124 - 126 - 138
	Not applicable	Cold oversaturated solutions of alkalies and salts	31 - 44 - 135 - 155
TS5 – MTSC	Unadvised	Liquid with solid particles	
	Risk of explosion !	Perchloric acid	117 - 118
ALUMINA Ceramic	Not applicable	Concentrated hot hydrofluoric / phosphoric acid	92 - 123
N1 - R1 - X1	Unadvised	Concentrated hot strong alkalies	19 - 31 - 44 - 135 - 155
SF1-TS5-MSFA-MTSC/D			
SILICON CARBIDE	Conditionally applicable	Concentrated hot hydrofluoric acid	92
X1 - N2 - R2 - X2			
TS6-MTSD			
PTFE (glass fibre filled)	Unadvised	Concentrated hot hydrofluoric acid; ammonium fluoride	17 - 92
N1 - N2	Unadvised	Liquid with solid particles	
SF1 – MSFA			
FFKM	Unadvised	Hot fluosilicic acid	79
	Unadvised	Concentrated perchloric acid	118

This Chemical Resistance List has to be intended as a guide in order to help the choise of materials better resistant to the handled chemical.
No garantees can be given in respect of the shown data, subject to be revised in the light of further empirical knowledge.