

## ● Acid Resistance

Chemicals	Immersion conditions		Retention(%)			Change ratio	
	Temperature(°C)	Time(days)	Tensile strength	Elongation	100% Modulus	Hardness (point)	Volume change(%)
Fuming sulfuric acid	R.T.	7	76	98	115	-2	4.2
"	"	30	—	—	—	+1	0.7
"	"	90	—	—	—	—	5.1
"	"	180	—	—	—	—	7.4
96% sulfuric acid	100	3	99	101	73	-3	4.4
"	R.T.	7	98	99	92	-3	0.4
"	"	30	—	—	—	+1	0.2
"	"	90	—	—	—	—	1.1
"	"	180	—	—	—	—	2.3
60% sulfuric acid	100	3	107	104	116	+1	0.4
"	R.T.	7	103	98	102	-1	0.1
"	"	30	—	—	—	+1	0.3
"	"	90	—	—	—	—	0.2
"	"	100	—	—	—	—	0.4
20% sulfuric acid	100	3	99	98	103	-3	0.4
"	R.T.	7	102	105	93	-1	-0.5
"	"	30	—	—	—	+1	0.4
Fuming nitric acid	R.T.	7	42	126	49	-7	19
"	"	30	—	—	—	-2	15.8
"	"	90	—	—	—	—	14.8
"	"	180	—	—	—	—	14.9
98% nitric acid	R.T.	7	—	—	—	—	—
"	"	30	—	—	—	-10	21.4
"	"	90	—	—	—	—	20.6
"	"	180	—	—	—	—	23.1
60% nitric acid	100	3	—	—	—	-18	34
"	70	3	44	107	61	-3	10
"	40	3	—	—	—	+1	1.2
"	R.T.	7	94	95	91	-1	1.3
"	"	30	—	—	—	0	1.0
"	"	90	—	—	—	—	2.0
"	"	180	—	—	—	—	5.1
20% nitric acid	100	3	43	93	50	-10	23
"	70	3	42	90	58	-13	25
"	40	7	105	114	111	-1	-5.0
"	R.T.	30	—	—	—	+1	0.4
"	"	90	—	—	—	—	0.5
"	"	180	—	—	—	—	1.3
37% hydrochloric acid	70	3	57	112	74	-2	7.0
"	40	3	77	88	108	-4	2.3
"	R.T.	7	100	107	118	+1	0.2
"	"	30	—	—	—	+1	0.7
"	"	90	—	—	—	—	1.8
"	"	180	—	—	—	—	4.5
20% hydrochloric acid	100	3	67	98	92	-7	6.5
"	70	3	58	85	92	-6	7.4
"	R.T.	7	103	107	112	-1	-4.6
"	"	30	—	—	—	+1	0.7
50% hydrofluoric acid	R.T.	7	63	117	100	+6	1.5
"	"	30	—	—	—	0	1.7
"	"	90	—	—	—	—	2.9
"	"	180	—	—	—	—	4.1
5% hydrofluoric acid +25% nitric acid	100	7	70	84	105	-6	3.5
62% chromic acid	R.T.	7	90	98	92	-2	1.7
46% chromic acid+25% sulfuric acid	R.T.	7	115	117	100	-1	2.6