



Chemical & Fluid Resistance of Silcoset Rubber

The table gives typical values of the variation in properties of Silcoset rubber, cured for 7 days at 23°C, 65% Relative Humidity, and then immersed in the test fluid for 8 days at 23°C.

	Hardness Change °BS	Tensile Strength Change %	Ultimate Elongation Change %	Volume Change %
Acetic Acid - 10%	0	-5	-5	0
Hydrochloric Acid - 4%	-2	-15	-15	0
Hydrochloric Acid - 20%	-8	-30	-32	+5
Nitric Acid - 6%	-8	-20	-10	0
Nitric Acid - 30%	-10	-40	-15	+2
Sulphuric Acid - 10%	0	-6	-5	0
Sulphuric Acid - 48%	-3	-6	-10	0
Ammonia - 10%	-2	-13	+5	+5
Sodium Hydroxide - 10%	-3	+20	+24	nil
Acetone	-2	-22	-28	+8
Ethyl Alcohol	0	-7	-5	0
Methyl Ethyl Ketone	-5	-35	-10	+50
Toluene	-15	-72	-43	+200
Petrol	-15	-70	-50	+275
Dimethylpolysiloxane (F111/100)	-9	-33	-41	+38
Arctic Oil	0	0	0	+3
Esso Turbo Fuel JP4	-20	-70	-45	+205
Esso Turbo Oil	0	-10	-5	+7