

TABLE ON CHEMICAL RESISTANCE OF RUBBER MATERIALS

Class 1 little or no effect

Class 2 minor effect

Class 3 moderate effect

Class 4 severe effect

Chemical	Conc.	Temp.	EPDM	NBR	Fluorinated rubber
	%	°C			
Acetic acid	10	50	3	4	4
	50	50	4	3	4
	25	100	4	4	4
	100	70	1	2	4
Acetone		RT	1	4	4
Ammonia gas		Cold	1	1	4
Ammonia Liquid		RT	4	4	2
Benzene		RT	4	4	2
Boric acid	10	100	1	1	1
Bunker oil			4	1	1
Butadiene		RT	3	4	2
		50	1	1	1
Butanol		100		1	1
			4	2	1
Butylene			4	2	1
Calcium hydroxide	100			2	1
Calcium hypochlorite	15		1	3	1
Carbon dioxide			1	1	1
Carbon tetrachloride	RT	4	3	1	
Castor oil		100	1	2	1
Chlorine (gas)			3		2
Chlorine water		RT	4	4	1
Chloroform		RT	4	4	1
Chromic acid	40	50	4	4	1
Citric acid sat		70	1	1	1
Coconut oil			2	1	1
Cod liver oil		RT	2	1	1
Corn oil		RT	2	1	1
Diacetone			1	1	4
Diesel oil (see fuel oil)					
Dioxane		RT	2	4	4
Ethane			4	1	1
Ethanol		50	1	1	1
Ether		RT	3	2	4
Ethyl acetate		RT	1	4	4
Ethylene				1	1
Ethylene glycol		100	1	1	1
Ethylene oxide			3	4	4
Fluid 101 (diester oil)		100	4	1	1
Fluorine liquid			3		2
Formaldehyde	40	RT		1	1
	40	70		4	

Formic acid	sat	RT	2	2	3
	sat	70	2	3	4
Freon 12		RT	2	1	2
Freon 22		RT	1	3	
Freon 112		RT	4	2	1
Fuel oil (diesel)		70	4	1	1
Fumaric acid				1	1
Glucose			1	1	1
Glycerine		100	1	1	1
Hexane		RT	4	1	1
Hexanol		RT	3	1	1
Hydrobromic acid	37	RT	1	4	1
Hydrochloric acid	10	100	4	2	1
	21	50	2	2	1
	37	RT	1	2	1
	48	RT	1	3	1
Hydrofloric acid	48	RT	1	3	1
	75	1	2		
Hydrogen peroxide	30	RT	1	1	1
	90		3	4	2
Hydrogen sulfide	sat	RT	1	4	4
Isobutyl alcohol		RT	1	2	1
Isopropyl alcohpl			1	2	1
Kerosene		70		1	1
Latic acid		70	1	1	1
Lard		70	3	1	1
Magnesium hydroxide				1	
Methane			4	1	1
Methanol		50	1	1	3
Methyl chloride			3	4	2
Milk			1	1	1
Mineral oil 1		100	4	1	1
Mineral oil 2		100	4	1	1
Mineral oil 3		100	4	1	1
Natural gas			4	1	1
Nitric acid conc.	65	RT	4	4	1
Nitrogen			1	1	1
Olei acid		RT	3	1	1
Olive oil		50	3	1	1
Oxygen		RT	1	1	1
Phenol		100	2	4	2
Phosporic acid	60	50	1	3	1
Propanol		50	1	2	1
Salicylic acid			1	1	1
Salt	sat	70	1	1	1
Soap sol.			1	1	1
Sodium carbonate	20	100	1	1	1
Sodium hydroxide	10	100	1	1	4
	25	100	1	4	4
Sodium peroxide				1	1
Soybean oil		RT	3	1	1
Sucrose sol.			1	1	
Sulfur dioxide		RT		3	1

Sulfuric acid	10	100	1	3	1
	20	RT	1	1	1
	25	100	1	4	1
	50	100	1	4	1
	60	100	1	4	1
	75	100	4	4	1
	95	RT		4	1
Toluene		RT	4	4	2
Transformer oil			4	1	1
Turpentine		RT	4	1	1
Veget. Oils			2	1	1
Vynil chloride					1
Water D.I.		100	1	1	1