Chemical Resistance Data [Hoses]

⚠ Notes for use of Chemical Resistance Data (Hoses/Couplings/KAMLOK/Gasket)

(1) This table is based on documents concerning the resistance of the materials used in hoses and couplings to various chemicals, and does not guarantee TOYOX products.
(2) The data may differ according to the conditions such as usage methods, temperature, pressure, concentration and period, etc., so evaluate results as the user with the actual equipment and usage conditions.
(3) Chemicals which are dangerous when permeating (active gases, etc.) should not be used in gaseous form. Be sure to confirm the precautions for each product or to consult TOYOX. Regarding the use of fluids not indicated in the Chemical Resistance Data, consult our website at http://english.toyox-hose.com/ .
(4) This data may be amended or added to based on changing product specifications or new information; check the TOYOX website for the latest data.

◎ = Excellent, can be used without problems.
○ = Good, may be affected to some extent, but can be used under general conditions.
△ = Fair, need to verify suitability.
× = Poor, cannot be used.
— = No data

⚠ Caution The following tables are intended to serve only as your reference of materials, and are not intended to guarantee our products. Evaluate results as the user with the actual equipment and usage conditions.

As of November 2018

	Material / Chemical (Concentration density % / Temperature ℃)	Hose inner fluid contact surface				
		Soft PVC	Polyolefin resin	Silicone rubber	Tetrafluororesin	Nylon
D	Developer (Sodium thiosulfate)	○	◎	◎	◎	—
	Diacetone alcohol	—	—	—	◎	○
	Dibutyl ether	×	△	×	○	—
	Dibutyl phthalate	×	△	○	◎	—
	Dichlorobenzene	×	△	×	◎	—
	Diethyl Ether (Ether, Ethyl ether)	×	△	×	◎	○
	Diethyl sebacate	×	○	◎	◎	—
	Diethylene glycol	×	◎	○	◎	—
	Dimethyl formamide	×	△	◎	◎	○
	Dimethylacetamide	—	△	—	◎	—
	Di-n-butylamine	—	—	—	◎	—
	Dioctyl phthalate	×	○	◎	◎	—
	Dioctyl sebacate	×	○	◎	◎	—
	Dioxane	×	—	△	◎	—
	Diphenyl	—	—	△	◎	○
	Diphenyl oxide	×	—	○	◎	—
E	Epichlorohydrin	×	—	×	◎	—
	Ethanolamine	×	○	○	◎	—
	Ether (Diethyl ether, Ethyl ether)	×	△	×	◎	○
	Ethyl acetate	×	△	△	◎	◎
	Ethyl acetoacetate	×	—	△	◎	—
	Ethyl acrylate	×	△	○	◎	—
	Ethyl alcohol (Ethanol)	×	○	○	◎	○
	Ethyl benzene	×	△	×	◎	—
	Ethyl cellulose	×	◎	○	◎	—
	Ethyl ether (Ether, Diethyl ether)	×	△	×	◎	○
	Ethylene chlorohydrin	×	△	△	◎	—
	Ethylene diamine	×	○	◎	◎	◎
	Ethylene dichloride	×	—	△	◎	—
	Ethylene glycol	×	○	◎	◎	○
	Ethylene oxide	×	◎	△	◎	○