

**Chemical Resistance Data**

※The following table should be referred to select a hose for a specific working fluid.

◎=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.

	Product	Soft PVC	Polyolefin	Silicon Rubber	Fluoride Polymer (ETFE)
		TOYORON SUPER TOYORON TOYOSIGNAL TOYOSPRING TOYORING	ECORON ECORON-S (Inner layer)	TOYOSILICONE TOYOSILICONE-S TOYOSILICONE-P	TOYOFUSSO TOYOFUSSO-E (Most Inner layer)
	Chemical Name				
	11 Freon			×	
	113 Freon			×	
	114 Freon			×	
	12 Freon			×	
	21 Freon			×	
	22 Freon			×	
	A (ASTM standard fuel)		△	×	
	Acetaldehyde	△	○	◎	◎
	Acetamide	△	○	○	
	Acetic acid 10 % RT	○	◎	○	◎
	Acetic acid 100 % RT	×	×	○	
	Acetic acid 50 % 70°C	×	×	○	
	Acetic acid 50 % RT	×	◎	○	◎
	Acetic acid anhydride	×	◎	△	
	Acetone (RT)	×	△	△	
	Acetonitrile				◎
	Acetophenone (RT)				◎
	Acetylene	◎	◎	△	◎
	Acidic cone suger Liguors			◎	
	Acrylonitrile	×		×	◎
	Aluminium fluoride	△	○	○	◎
	Aluminium sulfate (cake alum, filter alum)	◎	◎	◎	
	Aluminum acetate	◎	◎	×	◎
A	Aluminum bromide		◎	○	
	Aluminum chloride	○	◎	○	◎
	Aluminum fluoride	◎	◎	◎	◎
	Aluminum nitrate	○	◎	○	
	Ammonia (no water)		◎	△	
	Ammonia gas [cold]	×	○	◎	◎
	Ammonia gas [hot]	×	△	◎	◎
	Ammonia liquid	○	○	◎	
	Ammonia water (Ammonium hydroxide)	○	◎	◎	◎
	Ammonium carbonate	◎	○	○	◎
	Ammonium chloride	◎	◎	○	◎
	Ammonium hydroxide (Ammonia water)	○	◎	◎	◎
	Ammonium nitrate	○	○		◎
	Ammonium nitrite		◎	○	
	Ammonium phosphate	△	◎	◎	
	Ammonium sulfate	◎	◎	◎	
	Amyl acetate		△	×	
	Amyl alcohol	△	○	×	◎
	Amyl naphthalene		○	×	
	Aniline	×	○	○	◎
	Aqua regia	×	△	△	◎
	Argon gas	◎	◎		
	Arsenic acid	○	△	◎	◎
	Asphalt	◎	◎	×	