

RESISTANCE RATING		
A	Good Resistance:	Usually suitable for service.
B	Fair Resistance:	Chemical has some deteriorative effects, but the elastomer is still adequate for moderate service.
C	Depends on Condition:	Moderate service may be possible if chemical exposure is limited or infrequent.
D	Not Recommended:	Unsuitable for service.

	Natural Rubber	SBR	Butyl	Nitrile	Neoprene	Hypalon®	EPDM	FKM / Viton®	X-Linked Polyethylene	Modified X-Link	UHMWPE	FEP / Teflon®
Acetal	C	C	B	D	C	C	B	D	A	B	A	A
Acetaldehyde	D	D	A	D	C	C	A	D	A	A	A	A
Acetamide	C	D	A	A	B	B	A	B	A	A	A	A
Acetate Solvents	C	D	C	D	D	D	A	D	A	B	A	A
Acetic Acid, 10%	B	B	B	B	C	C	A	C	A	A	A	A
Acetic Acid, 30%	D	D	B	D	C	B	A	C	A	B	A	A
Acetic Acid, 50%	D	D	B	D	C	D	A	D	A	B	A	A
Acetic Acid, Glacial	D	D	B	D	D	D	A	D	-	A	A	A
Acetic Anhydride	D	D	B	D	D	D	B	D	A	B	A	A
Acetic Ester (Ethyl Acetate)	D	D	B	D	D	D	A	D	A	B	A	A
Acetic Ether (Ethyl Acetate)	D	D	B	D	D	C	A	D	A	B	A	A
Acetic Oxide (Acetic Anhydride)	D	D	B	D	D	D	B	D	A	B	A	A
Acetone	C	C	B	D	C	C	A	D	A	A	A	A
Acetophenome	C	D	A	D	D	D	A	D	A	A	A	A
Acetyl Acetone	D	D	B	C	D	D	B	D	A	A	A	A
Acetyl Chloride	D	D	C	D	D	D	C	B	B	C	B	A
Acetylene	D	D	A	A	B	B	B	A	A	A	A	A
Acrylonitrile	C	D	D	D	C	C	D	D	A	C	A	A
Air	A	A	A	A	A	A	A	A	A	A	A	A
Alcohol Aliphatic	A	B	A	A	A	A	A	C	A	A	A	B
Alcohol, Aromatic	C	D	D	C	C	D	D	A	A	B	A	A
Alk-Tri (Trichloroethylene)	D	D	D	D	D	D	D	A	B	C	B	A
Allyl Alcohol	A	B	A	A	A	A	A	B	A	A	A	A
Allyl Bromide	D	D	D	D	D	D	D	B	B	B	B	A
Allyl Chloride	D	D	D	D	D	D	D	A	B	B	B	A
Alum (Alum Potassium Sulfate)	A	B	A	A	A	A	A	A	A	A	A	A
Aluminum Acetate	C	B	A	C	C	B	A	A	A	A	A	A
Aluminum Chloride	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Floride	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Phosphate	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Nitrate	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Ammonia Anhydrous	TITAN HOSE NOT AVAILABLE											
Ammonia Liquid	B	B	A	B	A	A	A	A	A	A	A	A
Ammonia in Water	B	B	B	C	B	B	A	B	A	A	A	A
Ammonia, Gas (Cold)	TITAN HOSE NOT AVAILABLE											
Ammonia Gas (150°F)	TITAN HOSE NOT AVAILABLE											
Ammonium Carbonate	A	A	A	C	A	A	A	A	A	A	A	A
Ammonium Chloride	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Hydroxide	B	B	A	B	B	A	A	B	-	A	A	A
Ammonium Metaphosphate	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Nitrate	A	A	A	A	A	A	A	A	A	A	A	A

	Natural Rubber	SBR	Butyl	Nitrile	Neoprene	Hypalon®	EPDM	FKM / Viton®	X-Linked Polyethylene	Modified X-Link	UHMWPE	FEP / Teflon®
Ammonium Persulfate	A	D	A	D	A	A	B	A	A	A	A	A
Ammonium Phosphate	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Sulfate	A	B	A	A	A	A	A	A	A	A	A	A
Ammonium Sulfide	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Sulfite	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Thiocyanate	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Thiosulfate	A	A	A	A	A	A	A	A	A	A	A	A
Amyl Acetate	C	D	B	D	D	D	A	A	-	A	A	A
Amyl Acetone	D	D	B	D	D	D	B	D	A	A	A	A
Amyl Alcohol	A	B	A	A	A	A	A	A	A	A	A	A
Amylamine	TITAN HOSE NOT AVAILABLE											
Amyl Borate	D	D	D	A	A	C	D	A	A	C	A	A
Amyl Chloride	D	D	D	D	D	D	D	A	A	C	A	A
Amyl Chloronaphthalene	D	D	D	D	D	D	D	A	A	C	A	A
Amyl Napthalene	D	D	D	D	D	D	D	A	A	C	A	A
Amyl Oleate	D	D	B	D	D	D	B	C	A	B	A	A
Amyl Phenol	D	D	D	D	D	D	D	A	A	C	A	A
Anethole	D	D	D	D	D	D	D	B	B	C	B	A
Aniline	D	D	B	D	C	C	D	B	A	C	A	B
Aniline Dyes	B	C	B	D	B	B	B	B	A	A	A	A
Aniline Hydrochloride	B	C	B	B	D	B	B	B	A	A	A	A
Animal Fats	D	D	C	A	D	D	C	A	A	A	A	A
Animal Grease	D	D	D	A	C	D	C	A	A	A	A	A
Animal Oils	D	D	C	A	D	D	C	A	A	A	A	A
Ansul Ether	D	D	D	D	D	D	C	D	A	B	A	A
Antifreeze	A	A	A	A	A	A	A	A	A	A	A	A
Antimony Chloride	D	B	B	A	D	B	D	A	A	A	A	A
Antimony Pentachloride	D	D	D	B	D	D	D	A	B	A	B	A
Aqua Regia	D	D	C	D	D	B	B	A	D	B	B	A
Aromatic Hydrocarbons	D	D	D	D	D	D	D	A	-	-	-	A
Arquad	A	A	A	A	A	A	A	A	A	A	A	A
Arsenic Acid	B	A	A	A	B	A	A	A	A	A	A	A
Arsenic Chloride	D	D	D	C	A	D	D	D	D	-	D	A
Arsenic Trichloride	D	D	D	A	A	D	D	D	D		D	A
Asphalt	B	D	D	B	C	B	D	A	D	D	B	A
ASTM #1 Oil	D	D	D	A	A	B	D	A	A	A	A	A
ASTM #2 Oil	D	D	D	A	B	D	D	A	-	-	-	A
ASTM #3 Oil	D	D	D	A	C	B	D	A	-	-	-	A
Aviation Gasoline	D	D	D	A	D	D	D	A	-	-	-	A
Barium Carbonate	A	A	A	A	A	A	A	A	A	A	A	A
Barium Chloride	A	A	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A
Barium Sulfate	A	A	A	A	A	A	A	A	A	-	A	A

The chemical resistance chart lists elastomers commonly used by Titan for manufacturing hose products. Beneath each elastomer or synthetic rubber material is a listed chemical rating. **This rating is based on application temperatures not to exceed 70°F (21.1°C) unless otherwise specified.** The percentage of concentration of the chemical is highly significant

(eg. Hydrochloric acid 5% versus 37%) and our recommendation may vary considerably based on this information. **These charts are offered as a guideline only.** There are many variables to be considered with each application. **If there is any question about the resistance of a listed elastomer, please contact Titan's Technical Team at 800-242-HOSE(4673).**