

# CHEMICAL RESISTANCE

- E** Recommended; little or no effect on hose compound, suitable for continuous service.
- G** Recommended; minor effect on hose compound, may be suitable for continuous service, suitable for intermittent service.
- C** Conditional or questionable; moderate to severe effect on hose compound, may be suitable for limited applications.
- X** No recommended.
- I** No data available.

# CHEMICAL RESISTANCE

## A-B

	EPDM	Nitrile	Urethan
acetaldehyde 50%	G	X	X
acetic acid. Glacial	G	C	X
acetic acid 30%	G	G	X
acetic anhydride	C	C	X
acetone	G	X	X
acetyl chloride	X	X	X
acetylene	G	E	X
adipic acid	G	E	I
aluminum acetate	G	G	X
aluminum chloride	G	E	C
aluminum fluoride	G	E	C
aluminum hydroxide	I	I	I
aluminum nitrate	G	E	C
aluminum sulfate	G	E	X
ammonia anhydrous	Use anhydrous ammonia hose only		
ammonia gas (cold)	G	E	C
ammonia gas (hot)	C	X	X
ammonium carbonate	G	X	X
ammonium chloride	G	E	E
ammonium hydroxide	G	G	X
ammonium nitrate	G	E	X
ammonium nitrite	G	E	I
ammonium phosphate	G	E	I
ammonium sulfate	G	E	E
amly acetate	X	X	X
amyl alcohol	G	G	X
aniline	G	X	X
aniline dyes	G	X	X
aniline hydrochloride	C	G	X
animal fats	C	E	E
arsenic acid	G	E	C
arsenic trichloride	X	E	I
asphalt	I	G	G
barium chloride	G	E	E

barium chloride	G	E	E
barium sulfate	G	E	E
barium sulfide	G	E	E
beer	G	E	G
benzene	X	X	X
benzoic acid	X	C	I
benzyl alcohol	G	X	X
benzyl benzoate	C	X	I
benzyl chloride	X	X	X
boric acid	G	E	E
brine	G	E	G
bromine-anhydrous	X	X	X
bromine trifluoride	X	X	X
bromine water	G	X	X
bromotoluene	X	X	I
bunker oil	X	E	G
butadiene	X	X	X
butane	X	E	E
butter	G	E	E
butyl acetate	X	X	X
butyl alcohol	C	E	X
butyl aldehyde	C	X	I
butyl amine	G	C	X
butyl benzoate	C	X	I
butyl cellosolve	G	C	X
butyl stearate	X	G	I

# CHEMICAL RESISTANCE

## C-D

	EPDM	Nitrile	Urethan
calcium acetate	G	G	X
calcium bisulfite	X	X	E
calcium carbonate	E	E	I
calcium chloride	G	E	E
calcium hydroxide	G	E	E
calcium hypochlorite	G	G	X
calcium nitrate	G	E	E
calcium sulfide	G	E	E
carbitol	C	G	X
carbolic acid (phenol)	C	X	C
carbon bisulfite	X	C	I
carbon dioxide	C	E	E
carbonic acid	G	G	E
carbon monoxide	G	E	E
carbon tetrachloride	X	C	X
carbon tetrafluoride	I	I	E
castor oil	C	E	E
caustic soda (sodium hydroxide)	G	G	C
cellosolve	C	X	I
cellosolve acetate	C	X	X
chlorine (dry)	X	X	X
chlorine (wet)	X	X	X
chlorine dioxide	X	X	X
chloroacetone	G	X	X
chloroacetic acid	G	X	X
chlorobenzene	X	X	X
chlorobutadiene	X	X	X
chloroform	X	X	X
chlorotoluenen	X	X	X
chrome plating solutions	C	X	I
chromic acid	G	X	X
citric acid	G	E	G
cobalt	G	E	I
coconut oil	X	E	G
cod liver oil	G	E	E
coke oven gas	X	X	X
copper acetate	G	G	X

copper chloride	G	E	E
copper cyanide	G	E	E
copper sulfate	G	E	E
corn oil	X	E	E
cottonseed oil	C	E	E
creosote (coal tar)	X	E	X
cresol	X	X	X
creylic acid	X	X	X
cumene	X	X	I
cyclohexane	X	E	G
cyclohexanol	X	C	I
cyclohexanone	G	X	X
p-cymene	X	X	I
decalin	X	X	I
denatured alcohol	G	E	X
detergent solution	G	E	C
(non-hydrocarbon) diacetone	G	X	X
diacetone alcohol	G	X	X
dibenzyl ether	C	X	G
dibutyl amine	G	X	X
dibutyl ether	X	X	G
dibutyl phthalate	C	X	C
dibutyl sebecate	C	X	X
dichlorobezene	X	X	X
dichloroethylene	X	X	X
dichloro-isopropyl ether	X	X	G
diesel oil	X	E	C
diethylamine	G	G	C
diethylamine bezene	X	X	X
diethyl ether	X	X	G
diethylene glycol	G	E	X
diethyl sebecate	C	G	I
diisobutylene	G	G	I
diisopropyl bezene	X	X	I
diisopropyl ketone	G	X	X
dimethyl formamide	G	G	I
dimethyl phthalate	G	X	I
dinitrotoluenen	X	X	I
dioctyl phthalate	C	C	I
dioctyl sebecate	C	X	I
dipentene	X	G	I
diphenyl – (phenylbezene)	X	X	I
dowtherm oil	X	X	C
dry cleaning fluids	X	C	X

# CHEMICAL RESISTANCE

## E-F

	EPDM	Nitrile	Urethan
ethane	X	E	C
ethanolamine	G	G	C
ethyl acetate	G	X	X
ethyl acetoacetate	G	X	X
ethyl alcohol (ethanol)	G	E	X
ethyl benzene	X	X	X
ethyl benzoate	G	X	X
ethyl cellulose	C	G	G
ethyl chloride	X	E	C
ethyl ether	X	C	C
ethyl formate	C	X	I
ethyl pentachloro-benzene	X	X	C
ethyl silicate	G	E	I
ethylene	C	E	I
ethylene chloride	X	X	X
ethylene chlorohydrin	C	X	X
ethylene diamine	G	E	X
ethylene dichloride	X	X	X
ethylene glycol	G	E	C
ethylene trichloride	X	X	X
fatty acids	X	G	E
ferric chloride	G	E	E
ferric nitrate	G	E	E
ferric sulfate	G	E	E
fish oil	X	E	I
fluoroboric acid	G	E	I
fluorobenzene	X	X	I
fluorolube	G	E	I
fluorosilicic acid	C	E	I
formaldehyde	G	C	X
formic acid	G	G	X
freon, all types	Use freon hoses only		
fuel oil	X	E	G
furfural	G	X	C

# CHEMICAL RESISTANCE

## G-M

	EPDM	Nitrile	Urethan
gallic acid	G	G	X
gasoline	X	E	G
gelatin	G	E	C
glucose	G	E	C
glycerine	G	E	E
glycols	G	E	C
green sulfate liquor	G	G	E
hexane	X	E	G
hexyl alcohol	X	E	X
hydraulic oil (petroleum)	X	E	E
hydrobromic acid	G	X	X
hydrochloric acid 37%	G	C	X
hydrocyanic acid	G	G	I
hydrocyanic acid-(conc.) cold	G	X	X
hydrofluoric acid-anhydrous	G	X	X
hydrofluosilic acid	C	E	I
hydrogen gas	G	E	E
hydrogen peroxide 10%	I	I	I
hydrogen peroxide >10%	I	I	I
iodine	X	X	I
isobutyl alcohol	G	G	X
isooctane	X	E	G
isopropyl acetate	C	X	X
isopropyl alcohol	G	G	C
isopropyl chloride	X	X	X
isopropyl ether	X	G	G
kerosene	X	E	G
lacquer solvents	X	X	X
lactic acid (cold)	G	E	I
lard	C	E	E
lavender oil	X	G	X
lead acetate	G	G	X
lead nitrate	G	E	I
lead sulfamate	G	G	I
linseed oil	X	E	G
liquefied petroleum gas	X	E	E

lubricating oils – (petroleum)	X	E	G
lye	G	G	X
lye solutions	E	I	I
magnesium chloride	G	E	E
magnesium hydroxide	G	G	X
magnesium sulfate	G	E	E
maleic acid	G	X	I
maleic anhydride	C	X	I
malic acid	G	E	I
mercury	G	E	G
mesityl oxide	C	X	X
methane	X	E	C
methyl acetate	G	X	X
methyl alcohol (methanol)	G	E	X
methyl bromide	X	X	X
methyl butyl ketone			
(propyl acetone)	G	X	X
methyl cellosolve	C	G	X
methyl chloride	X	X	X
methyl ethyl ketone – (mek)	C	X	X
methyl isobutyl ketone	C	X	X
methyl oleate	C	X	I
methylene bromide	X	X	I
methylene chloride	X	X	I
milk	G	E	X
mineral oil	X	E	E
monochlorobenzene	X	X	X
monoethanolamine	G	X	I
monomethylether	X	E	I
monovinyl acetylene	G	E	I

# CHEMICAL RESISTANCE

## N-P

	EPDM	Nitrile	Urethan
naphtha	X	G	C
naphthalene	X	X	G
naphthenic acid	X	G	I
natural gas	X	E	G
nickel acetate	G	G	X
nickel chloride	G	E	C
nickel sulfate	G	E	C
nitric acid-conc.	G	X	X
nitric acid-dilute	G	X	C
nitrobenzene	G	X	X
nitroethane	C	X	X
nitromethane	C	X	I
nitrogen	G	E	E
nitrous oxide	I	E	I
octachlorotoluene	X	X	X
octyl alcohol	X	G	X
oleic acid	X	C	G
oleum	G	G	C
olive oil	C	E	E
o-dichlorobenzene	X	X	I
oxalic acid	G	G	I
oxygen	G	G	E
ozone	G	X	E
palmitic acid	C	E	E
peanut oil	X	E	G
perchloric acid	C	X	X
perchloroethylene	X	G	X
petroleum	X	E	G
phenol (carbolic acid)	G	X	C
phenylbenzene	X	X	I
phenyl hydrazine	C	X	I
phorone	X	X	I
phosphoric acid-20%	G	G	E
phosphoric acid-80%	G	X	I
phosphoric trichloride	G	X	I
picric acid	G	G	G
pine oil	X	E	I

polyvinyl acetate emulsion	G	I	I
potassium acetate	G	G	X
potassium chloride	G	E	E
potassium cupro cyanide	E	E	E
potassium cyanide	G	E	E
potassium dichromate	G	E	G
potassium hydroxide	G	G	X
potassium nitrate	G	E	E
potassium sulfate	G	E	E
propane	X	E	C
propyl acetate	C	X	I
propyl alcohol (propanol)	G	E	X
propyl nitrate	G	X	I
propylene	X	X	X
pyranol (transformer oil)	X	X	G
pyridine	G	X	G

# CHEMICAL RESISTANCE

## S-Z

	EPDM	Nitrile	Urethan
salammoniac	G	E	E
salicylic acid	G	G	I
salt water	G	E	E
sewage	G	E	X
silicone greases	G	E	E
silicone oils	G	E	E
silver nitrate	G	G	E
skydrol 500 & 7000	G	X	X
soap solutions	G	E	C
soap ash	G	E	E
sodium acetate	G	G	X
sodium bicarbonate	G	E	E
sodium bisulfite	G	E	E
sodium borate	G	E	E
sodium chloride (brine)	G	E	E
sodium cyanide	G	E	E
sodium hydroxide	G	G	X
sodium hypochlorite	C	G	X
sodium metaphosphate	G	E	I
sodium nitrate	G	G	E
sodium perborate	G	G	I
sodium peroxide	G	G	X
sodium phosphate	G	E	E
sodium silicate	G	E	E
sodium sulfate	G	E	E
sodium thiosulfate	G	G	E
soybean oil	X	E	G
stannic chloride	G	E	I
stearic acid	G	G	E
styrene	X	X	C
sucrose solution	G	E	X
sulfur	G	X	I
sulfur chloride	X	C	I
sulfur dioxide-dry	E	X	I
sulfur dioxide-liquid	G	X	I
sulfur dioxide-wet	E	X	I
sulfuric trioxide	C	X	I

sulfuric acid 10%	G	C	C
sulfuric acid 10-75%	G	X	X
sulfurous acid	G	G	X
tannic acid	G	E	E
tar bituminous	X	G	I
tartaric acid	C	E	E
terpeneol	X	G	G
tertiary butyl alcohol	C	G	X
tetrachloroethylene	X	X	X
tetraethyl lead	X	G	I
toluene	X	X	X
toluol	X	X	I
transformer oil	X	E	E
transmission fluid A	X	E	E
trichloroethane	X	X	X
trichloroacetic acid	C	G	I
trichloroethylene	X	X	X
tricresyl phosphate	X	X	C
triethanol amine	G	G	X
trinitrotoluene	X	X	I
turbine oil	X	G	E
turpentine	X	E	X
vegetable oils	X	E	G
vinegar	G	G	X
vinyl chloride	X	X	X
water	G	E	G
whiskey, wine	G	E	G
white oil	X	E	E
wood oil	X	E	C
xylene	X	X	X
zinc chloride	G	E	E
zinc sulfate	G	E	I