

CHEMICAL RESISTANCE

HOSE SELECTION BY FLUID - 100R1/2/13/16/17

Please refer to this chemical resistance table to select hose by fluid. It is intended as a guide only and is not a guarantee. Final selection of the proper hose type, seal, or material of metal components is further dependent on many factors including pressure, fluid, and ambient temperature.

1. Resistance Rating Key

- = Excellent (Inner tube has little or no damage)
- = Good (Inner tube has some damage, but useful)
- = Not recommended
- = Unsatisfactory

2. Hose Types

1) NBR (type I)	100R1, 100R2, 100R16, 100R6
2) NBR (type II)	100R13
3) NR/SBR	COMPRESSOR HOSE
4) EPDM	HEATER HOSE, STEAM HOSE
5) TPC-ET	100R17 HYBRID
6) UHMW	NOT STOCKED
7) NYLON	PAINT SPRAY HOSE

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Chemical Name	Hose Polymer						
	NBR (type I)	NBR (type II)	NR / SBR	EPDM	TPC-ET	UHMW	NYLON
A							
Acetic Acid (10%)	●	●	●	●	●	●	●
Acetic Acid (100%)	●	●	●	●	●	●	●
Acetone	●	●	●	●	●	●	●
Acetylene	●	●	●	●	●	●	●
Air	●	●	●	●	●	●	●
Alcohol (Ethyl)	●	●	●	●	●	●	●
Alcohol (Methyl)	●	●	●	●	●	●	●
Ammonia Gas (cold)	●	●	●	●	●	●	●
Ammonia Gas (hot)	●	●	●	●	●	●	●
Ammonia Liquid	●	●	●	●	●	●	●
Ammonium Chloride	●	●	●	●	●	●	●
Aniline	●	●	●	●	●	●	●
Asphalt	●	●	●	●	●	●	●
ASTM Fuel A	●	●	●	●	●	●	●
ASTM Fuel B	●	●	●	●	●	●	●
ASTM Fuel C	●	●	●	●	●	●	●
ASTM Oil No.1	●	●	●	●	●	●	●
ASTM Oil No.2	●	●	●	●	●	●	●
ASTM Oil No.3	●	●	●	●	●	●	●
Automatic transmission fluid	●	●	●	●	●	●	●
B							
Beer	●	●	●	●	●	●	●
Benzene	●	●	●	●	●	●	●
Butane	●	●	●	●	●	●	●
C							
Calcium Chloride	●	●	●	●	●	●	●
Carbon Dioxide	●	●	●	●	●	●	●
Carbon Monoxide	●	●	●	●	●	●	●
Carbon Tetrachloride	●	●	●	●	●	●	●

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	NBR (type I)	NBR (type II)	NR / SBR	EPDM	TPC-ET	UHMW	NYLON
C							
Chlorine Gas	●	●	●	●	●	●	
Chloroform	●	●	●	●	●	●	●
Coal Oil	●	●	●	●		●	●
Coal Tar	●	●	●	●	●	●	
Cresols	●	●	●	●	●	●	●
D							
Diesel fuel	●	●	●	●	●	●	●
E							
Ethers	●	●	●	●	●	●	●
Ethlene Glycol	●	●	●	●	●	●	●
F							
Formaldehyde	●	●		●	●	●	●
Formalin	●	●		●	●		●
Formic Acid	●	●	●	●	●	●	●
Freon 12	●	●	●	●	●	●	●
Freon 22	●	●	●	●	●	●	●
Freon 113	●	●	●	●	●	●	●
Fuel A (ASTM)	●	●	●	●	●	●	●
Fuel B (ASTM)	●	●	●	●	●	●	●
Fuel C (ASTM)				●		●	●
Fuel Oil	●	●	●	●	●	●	●
G							
Gas (Natural)	●	●	●	●	●	●	●
Glycerine	●	●	●	●	●	●	●
Grease	●	●	●	●	●	●	●
H							
Heptane	●	●	●	●	●	●	●
Hexane	●	●	●	●	●	●	●
Hydraulic Fluid (Petroleum base)	●	●	●	●	●	●	●

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H							
Hydraulic Fluid (Water glycol base)	●	●	●	●		●	
Hydraulic Fluid (Phosphate ester base)	●	●	●	●		●	
Hydrogen	●	●	●	●	●	●	●
I							
Isooctane	●	●	●	●	●	●	●
K							
Ketons	●	●	●	●	●	●	●
L							
Lacquer Solvents	●	●	●	●	●	●	●
Liquid Petroleum Gas	●	●	●	●		●	
M							
Mercury	●	●	●	●	●	●	●
Methyl Ethyl Ketone	●	●	●	●	●	●	●
N							
Naphtha	●	●	●	●	●	●	●
Nitric Acid (up to 25%)	●	●	●	●	●	●	●
Nitrobenzene	●	●	●	●	●	●	●
Nitrogen	●	●	●	●	●	●	
O							
Oleic Acid	●	●	●	●	●	●	●
Oxygen	●	●	●	●	●	●	●
Ozone	●	●	●	●	●	●	●
P							
Petroleum Oil	●	●	●	●	●	●	●
Phenol	●	●	●		●	●	●
Phospahte Esters	●	●	●	●	●		●
Propane	●	●	●	●		●	
S							
Sea Water	●	●	●	●	●	●	●
Soap Solutions	●	●	●	●	●	●	●

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	NBR (type I)	NBR (type II)	NR / SBR	EPDM	TPC-ET	UHMW	NYLON
S							
Sodium Carbonate	●	●	●	●	●	●	●
Sodium Chloride	●	●	●	●	●	●	●
Sodium Hydroxide	●	●	●	●	●	●	●
Steam	●	●	●	●	●		
Sulfur	●	●	●	●	●	●	
Sulfuric Acid	●	●	●	●	●	●	
T							
Toluene	●	●	●	●	●	●	●
Trichloroethylene	●	●	●	●	●	●	●
V							
Vinegar	●	●	●	●	●	●	●
W							
Water	●	●	●	●	●	●	●
X							
Xylene	●	●	●	●	●	●	●