

Industrial Hose Chemical Resistance Guide

WARNING The following data is based on tests and believed to be reliable; however, the tabulation should be used as a guide **ONLY**, since it does not take into consideration all variables, such as elevated temperatures, fluid contamination, concentration, etc. that may be encountered in actual use. All critical applications should be tested. Contact Parker for recommendation and assistance. **Note:** All data based on 70°F unless otherwise noted.

KEY:

- E = Excellent
- G = Good
- C = Conditional
- Blank = No Data
- X = Not Satisfactory

Trade Name	Description	ASTM Codes	Parker Codes	Trade Name	Description	ASTM Codes	Parker Codes
Butyl	Isobutylene-Isoprene	IIR	BU	Nylon	Nylon Polymer	—	NL
CPE	Chlorinated Polyethylene	CM	CP	SBR	Styrene-Butadiene	SBR	SB
EPDM	Ethylene Propylene-Diene	EPDM	EP	Santoprene	Ethylene-Propylene-Diene	EPDM	SP
Hypalon	Chlorosulfonyl Polyethylene	CSM	CS	Teflon	Fluorocarbon Resin	TFE	TF
Hytrel	Thermoplastic Polyester	—	HY	UHMW	Ultra-High Molecular Weight Polyethylene	—	UHMW
Natural	Natural Rubber	NR	NR	Urethane	Urethane	AU	AU
Neoprene	Polychloropren	CR	CR	Viton	Floroelastomer	FKM	VI
Nitrile	Acrylonitrile	NBR	NI	XLPE	Cross-Linked Polyethylene	XPE	XP

Chemical or Material Conveyed	Butyl	CPE	EPDM	Hypalon	Hytrel	Natural	Neoprene	Nitrile	Nylon	SBR	Santoprene	Teflon	UHMW	Urethane	Viton	XLPE
1 UNDECANOL	E			E		E	X	E				E			G	E
1,4-DIOXANE	G		G	X		X	X	X	E	X		E		X	X	E
1-AMINO-2-PROPANOL	E			C		G	X	G				E			X	X
1-AMINOBUTANE	X		C	C		X	X	C		X		E		X	X	X
1-AMINOPENTANE	G		X	G		G	X	C				E			X	X
1-BROMO-2 METHYL PROPANE	X			X		X	X	X				E			G	
1-BROMO-3 METHYL BUTANE	X		X	X		X	X	X				E			G	
1-BROMOBUTANE	X			X		X	X	X				E			G	
1-CHLORO-2-METHYL PROPANE	X			X		X	X	X				E			G	
1-CHLORO-3-METHYL BUTANE	C		X	X		X	X	X	E			E			E	
1-DECANOL	C			E		C	X	E				E			G	E
1-HENDACONAL		E														
2 (2AMINOETHYLAMINO) ETHANOL	E			G		G		G								
2 (2ETHOXYETHOXY) ETHANOL	E		G	G		C	C	G	E	G		E		X	G	
2 (2ETHOXYETHOXY) ETHYL ACETATE	G		X	G		X	X	C		X		E		X	G	
2,4-DI-SEC-PENTYLPHENOL		E														
2-AMINOETHANOL	E		G	G		G	G	G				E		C	X	
2-CHLORO-1-HYDROXY-BENZENE		C														
2-CHLOROPHENOL	G	G	X	C	X	X	X	X	X	X	X	E		X	E	G
2-CHLOROPROPANE	X		X	X		X	X	X	X	X	X	E		X	E	E
2-ETHOXYETHANOL	G		G	C		C	C	G		X		E		X	C	
2-ETHOXYETHYL ACETATE	G	X	G	X	X	X	X	X	G	X		E		X	X	
2-ETHYL (BUTYRALDEHYDE)	G			X		X		X				E		X	X	
2-ETHYL-1-HEXANOL	E		E	E		E	E	E		E	E	E		X	E	E
2-ETHYLHEXANOIC ACID	C			G		C		C				E				
2-ETHYLHEXYL ACETATE	E			E		X		X				E			X	
2-OCTANONE	G			X		X		X				E			X	
3-BROMOPROPENE	X			X		X	X	X				E			X	G
3-CHLORO-2-METHYL PROPANE		G														
3-CHLOROPROPENE	C		X	X		X	X	G		E		E			G	
4-HYDROXY-4-METHYL-2-PENTANONE	E		E	C	C	C	C	X	G	C		E		X	X	
ACETALDEHYDE	E		E	C	G	C	X	X	E	X	E	E	G	X	X	E
ACETIC ACID, GLACIAL	G	E	G	C	E	X	X	G	X	C	G	E	E	X	X	E
ACETIC ACID-10%	E	E	E	E	X	B	B	X	E	F	B	E	E	X	E	E
ACETIC ACID-50%	E	E	E	E	C	X	C	C	C	X		E	E	X	G	G
ACETIC ANHYDRIDE	G	E	G	E	C	C	G	X	X	X	G	E	G	X	X	E
ACETIC OXIDE	G		B	E		X					B	E		G	X	E
ACETONE	E	G	E	X	C	C	X	X	E	C		E	E	X	X	E
ACETONE CYANOHYDRIN	E			C		C	B	X			E	E	G	X	X	E
ACETONITRILE	E		E	G		B	E	C			E	E		X	X	E