

Reactive Chemicals

Fluid	CPE	EPDM	Hypalon	Hytril	Neoprene	Nitrile	Nylon	Polyurethane	PTFE	PVC	Vinyl Nitrile	FKM (Viton)	UHMW	XLPE	Natural Rubber / SBR	Silicone	Aluminum	316 Stainless	Brass	Steel	Notes:	
Alcohols (Methanol & Ethanol)	+	+	+	+	+	+	+	-	+	-	+	-	/	/	+	+	+	+	+	+	•	Ingredient in Some Anti-Viral Cleansers Bleaching and Cleaning Agent; Sodium Hypochlorite
Bleach Solution (Sodium Hypochlorite)	+	+	•	•	-	-	-	•	+	•	-	+	•	•	-	-	-	+	-	-	-	
Butyl Alcohol	+	+•	+	+	+	+	+	+	+	-	+	+	+	/	+	+	+	+	+	+	+	Potent virucidal agent
Chlorine	-	-	/	-	-	-	/	-	+	/	/	+	/	/	/	/	-	-	•	•	•	Antiseptic; Anti-Viral
Citric Acid	-	+	+	+	+	+•	-	•	+	+	•	+	+	/	+	+	•	+	-	-	-	Insecticides and disinfectants; Antiviral
Copper Chloride	-	+	+	+	•	+	+	+	+	+	+	+	+	+	+	+		+	-	-	-	Copper Chloride
Ethyl Alcohol (Ethanol)	+	+	+	+	+	+	+	+•	+	•	+	+	+	+	+	+•	+	+	+	+•	+	Ingredient in Some Anti-Viral Cleansers
Hydrochloric Acid	+	+	+	-	-	-	-	-	+	+	-	+	+	+	-	-	-	-	-	-	-	Toilet, Tile and Porcelain Cleaner; Anti-Viral (Polio)
Hydrogen Peroxide	+	•	-	-	-	-	-	+•	/	-	-	+	•	•	-	+•	•	•	-	-	-	Multipurpose Cleaner
Iodine	+	+	+	/	-	+	+	-	+	-	-	+	•	•	-	/		-	-	-	-	Antiseptic; Antiviral (Polio)
Isopropyl Alcohol	+	+	+	+•	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	Ingredient in Some Anti-Viral Cleansers
Phenol (Carbolic Acid)	+	•	-	-	-	-	-	-	+	-	-	+	+	+	-	-	+	+•	+•	-	-	Anti-Virus (Rhinovirus) (Adenovirus)
Sodium Chloride	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	•	+	-	•	•	Anti-Virus
Sodium Hypochlorite (Bleach)	•	+	+	+	-	-	-	-	+	+	-	•	+	+	-	-	-	-	•	-	-	Bleaching and Cleaning Agent
Quaternary Ammonium Salts (Lysol)	/	/	/	/	+	+	/	/	+	/	/	+	+	+	/	+	/	/	/	/	/	Common Anti-Viral; Benzalkonium Chloride (Lysol)
Lactic Acid	-	+•	+	-	+	+•	+•	•	+	+	-	+	+	+	-	+	•	+	•	•	•	Anti-Viral (Rhinovirus)
Acetic Acid (concentrated)	+	+	-	-	-	-	-	-	+	+	-	+	+	+	-	+	+	+	+	•	•	
Acetic Acid (10%)	+	+	+•	+•	•	+	•	-	+	•	-	+	+	+	•	+	+	+	+	-	-	
Peracetic Acid (up to 40%)	+	+•	+•	/	•^	•^	-	-	+	+	/	+	+	+	•	•	+	+				

Non-Virucide Treatment

Fluid	CPE	EPDM	Hypalon	Hytril	Neoprene	Nitrile	Nylon	Polyurethane	PTFE	PVC	Vinyl Nitrile	FKM (Viton)	UHMW	XLPE	Natural Rubber / SBR	Silicone	Aluminum	316 Stainless	Brass	Steel	Notes:	
Detergent/Water Solution	+	+	/	•	+	+	+	•	+	+	+	+	+		•	+	+	+	+	+	+	
Soap Solution	+	+	+	+	•	+	+	+	+	+	+	+	+	+	-	+	-	+	+	+	+	
Borax Solution (Sodium Tetraborate)	+•	+	•	+	•	+	+	+•	+	+	•	+	+	+	•	+•	+	+	+	+•	+•	Detergent
Vinegar	•-	+	+	•	+	•	-	-	+	+	•	+	+	+	•	•	•	+	-	-	•	Coffee maker, wine stains, & window cleaner

Thank you to our partners at **FATON** for providing this chart!

+ Good • Fair - Not Recommended ^ Conditional / N/A

* See page 2 for chart instructions & important information

This chart indicates the suitability of various elastomers and metals for use with fluids to be conveyed. It is intended as a guide only and is not a guarantee. Final selection of the proper hose style, seal, or material of metal components is further dependent on many factors including pressure, fluid and ambient temperature, concentration, duration of exposure, etc.

How to use the chart:

1. Both the elastomer and the metal must be considered when determining suitability of a combination for a hose assembly, adapter with o-ring, swivel joint or coupling.
2. Locate the fluid to be conveyed and determine the suitability of the elastomeric and metal components according to the resistance ratings shown for each.
3. For further details on the products shown in this chart, and their applications, contact:

MCGILL HOSE & COUPLING, INC
413-525-3977

NOTE: Special precautions are necessary in gaseous applications due to the potential volume of gaseous fluid in the system. Unless the cover is perforated, hose styles with rubber or thermoplastic covers are not suitable for gases above 250 psi. Hose styles with perforated covers are so noted in their construction descriptions.

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WARNING: Compatibility of hose fittings with conveyed fluid is an essential factor in avoiding chemical reactions that may result in release of fluids or failure of the connection with the potential of causing severe personal injury or property damage.

This chart is intended for reference use only. The information in this chart pertains strictly to material compatibility and is not intended to be used as an application guide. For information on specific applications not included in this catalog, please contact Eaton.

CAUTION: The fluid manufacturer's recommended maximum operating temperature for any specific name brand fluid should be scrupulously observed by the user. These recommended temperatures can vary widely between name brands of different fluid compositions, even though they fall into the same generic "family" of fluids. Exceeding the manufacturer's recommended maximum temperature can result in fluid breakdown, producing by-products that are harmful to elastomeric products, as well as other materials in the system. If a manufacturer's recommended maximum temperature for his specific fluid is lower than that for the hose rating, it should take precedence over the hose rating for service usage.