168 Highway 274 #316
Lake Wylie, SC 29710
877-890-2283 I 704-289-0700

Chemical Compatibility Chart

Chemical		Chemical Formula	316 SS	Seals EPDM	Seals NBR	Seals FKM	Valve Seat PTFE
Acids	Acetic Acid 5%	$C_2H_4O_2$	A	A	B	A	A
	Acetic Acid 10%	$C_2H_4O_2$	A	A	C	B	A
	Acetic Acid Glacial	$C_2H_4O_2$	A	A	B	D	A
	Boric Acid 20%	H_3BO_3	A	A	A	A	A
	Nitric Acid 20º C	HNO_3	A	D	D	B	A
Bases	Ammounium Hydroxide Concentrated	NH_4OH	A	A	D	B	A
	Potassium Hydroxide 50% 20ºC	KOH	A	A	B	D	A
Gases	Acetylene	C_2H_2	A	A	A	A	A
	Air		A	A	A	A	A
	Argon	Ar	A	A	A	A	A
	Butane	C_4H_{10}	A	D	A	A	A
	Carbon Dioxide	CO_2	A	A	A	A	A
	Carbon Monoxide	CO	A	A	A	A	A
	Ethyl Chloride (no moisture)	C_2H_5Cl	A	B	A	A	A
	Helium	He	A	A	A	A	A
	Hydrogen	H_2	A	A	A	A	A
	Hydrogen Sulfide	H_2S	A	A	A	D	A
	Methane	CH_4	A	D	A	A	A
	Neon	Ne	A	A	A	A	A
	Nitrogen	N	A	A	A	A	A
	Propane	C_3H_8	A	D	A	A	A
	Xenon	Xe	A	A	A	A	A
Alcohols	Amyl Alcohol	$C_5H_{11}OH$	A	A	B	B	A
	Butyl Alcohol (Butanol)	$C_4H_{10}O$	A	B	A	A	A
	Ethyl Alcohol < 80%	C_2H_6O	A	A	A	B	A
	Ethyl Alcohol > 80%	C_2H_6O	A	A	A	B	A
	Glycerine (Glycerol)	$C_3H_5(OH)_3$	A	A	A	A	A
	Isopropyl Alcohol	C_3H_8O	A	A	B	A	A
	Methanol	CH_3OH	A	A	A	D	A

A = Recommended B = Minor Effect C = Moderate Effect D = Unsatisfactory

Recommendations shown above are general in nature. Product service life for a given application is dependent on actual media mixture, pressure, temperature and operational (cycling) parameters. Contact Isotubi-USA's Technical Department if you have questions or wish to inquire about compatibility with chemicals not shown in the chart.