

# Chemical Resistance Tables



## Stainless Steel Bearings & Housings:

Chemical		300 Stainless	400 Stainless
Diluted Acids	Phosphoric	B	N
	Nitrous Acid	A	A
	Sulfuric Acid	B	N
Food	Food Products	A	B
	Juices (Fruit & vegetable)	A	B
	Dairy	A	C
Acids	Phosphoric	A	N
	Nitrous Acid	D	N
Water	Steam	A	B
	Tap Water (chlorinated)	A	B
	Sea Water	A	D
Other	Ammonia	A	C
	Alkalines	B	B
	Sulfites	B	D

**A = Excellent**  
**B = Good**  
**C = Fair**  
**D = Poor**  
**N = Not compatible**

## Polymer Housings:

Chemical	Concentration	PBT	Nylon 66
Acetic Acid	100%	Fair	Poor
Acetone	100%	Good	Good
Ammonia Liquid		No	Good
Aniline	100%	Good	Poor
Benzene	100%	Good	Good
Bleaching Solutions	Dilute	Good	No
Caustic Potash	10%	Good	Good
Chlorine Water	Saturated	No	Poor
Chloroform	100%	Good	No
Chromic Acid	10%	Good	Poor
Citric Acid	10%	Good	Poor
Detergent Soaps		Good	Good
Ethanol	96%	Good	Good
Fuel Oil		Good	Good
Glycerin		Good	Good
Hydrochloric Acid	30%	Poor	No
Lactic Acid	20%	Good	Poor
Methyl Alcohol	100%	Good	Good
Mineral Oil		Good	Good
Nitric Acid	50%	Good	No
Oleic Acid	100%	Good	Good
Oxalic Acid	10%	Good	No
Phosphoric Acid	85%	Good	No
Sea Water		Good	Good
Sodium Chloride (salt)		Good	Good
Sodium Hydroxide	50%	No	Good
Stearic Acid	100%	Good	Poor
Sulfuric Acid	10%	Good	No
Toluene	100%	Good	Good
Trichloroethylene		No	Good
Turpentine	100%	Good	Good
Vegetable Oil		Good	Good

Wash Down  
Units