



Specification Sheet

Polyurethane Tubing

Performance Data

Temperature Range	Vacuum	Media	Diameter Tolerances
-40° to 160° F -28° to 71° C	to 28" Hg	Fluids Compatible w/ Materials	±.005

Product Group	OD/ID	Durometer	Working Pressure psi @ 75°F
PU-125-*	1/8 x 1/16	85A	135
PU-125F-*	1/8 x 1/16	95A	255
PU-156-*	5/32 x 5/64	85A	155
PU-156F-*	5/32 x 3/32	95A	210
PU-250R-*	1/4 x 1/8	70A	60
PU-250-*	1/4 x 1/8	85A	145
PU-250PB-*	1/4 x .170	90A	115
PU-250F-*	1/4 x 1/8	95A	265
PU-312-*	5/16 x 3/16	85A	110
PU-375R-*	3/8 x 1/4	70A	50
PU-375-*	3/8 x 1/4	85A	100
PU-375PB-*	3/8 x .245	90A	125
PU-375F-*	3/8 x .245	95A	170
PU-468F-*	15/32 x 5/16	95A	155
PU-562F-*	9/16 x 3/8	95A	155
PU-750F-*	3/4 x .467	95A	175

Working Pressure: 3 to 1 Safety Factor

Materials

Ether based Polyurethane (PU) Tubing

Chemical Resistance Information (Tubing Information)

	N	PUR	PE	PVC		N	PUR	PE	PVC		N	PUR	PE	PVC
Acetic Acid, Glacial	-	4	1	4	Ethylene Trichloride	-	4	-	-	Prospane	1	3	3	1
Acetic Acid, 30%	-	4	1	4	Ferric Chloride (aq)	-	1	1	1	Propyl Alcohol	-	4	-	-
Acetone	-	4	2	4	Ferric Nitrate (aq)	-	1	2	1	Propylene	-	4	-	-
Acetylene	-	4	1	1	Ferric Sulfate (aq)	-	1	1	1	Propylene Oxide	-	4	-	-
Alkazene	-	4	-	-	Fluorine (Liquid)	4	4	3	4	Pydraul, 10E, 29 ELT	-	4	-	-
Aluminum Chloride (aq)	-	3	2	1	Formaldehyde (RT)	-	4	2	1	Pydraul, 30E, 50E, 65 E	-	4	-	-
Aluminum Nitrate (aq)	-	3	-	-	Formic Acid	3	3	2	1	Pydraul, 115E	-	4	-	-
Ammonia Anhydrous	-	4	2	1	Freon 11	-	4	3	1	Pydraul, 230E, 312C, 540C	-	4	-	-
Ammonia Gas (cold)	-	3	-	-	Freon 12	1	1	3	1	Rapeseed Oil	-	2	-	-
Ammonia Gas (hot)	-	4	-	-	Freon 22	1	4	-	2	Red Oil (MIL-H-5606)	-	1	-	-
Ammonia Chloride (aq)	-	1	1	1	Fuel Oil	-	2	3	1	RJ-1 (MIL-F-23338 B)	-	1	-	-
Ammonium Sulfate (aq)	-	1	1	1	Futural Glucose	-	4	1	1	RP-1 (MIL-F-25576 C)	-	1	-	-
Amyl Alcohol	-	4	2	1	Glue	-	1	1	3	Salt Water	1	2	1	1
Amyl Napthalene	-	4	-	-	Glycerin	1	1	1	1	Sewage	-	4	-	-
Animal Fats	-	1	-	-	Glycols	1	4	-	-	Silicate Esters	-	1	-	-
Aqua Regia	-	4	2	3	Green Sulfate Liquor	-	1	-	-	Silicone Oils	-	1	1	1
Arsenic Acid	-	3	2	1	Hexane	-	2	3	2	Silver Nitrate	-	1	2	1
Asphalt	-	2	1	1	Hydraulic Oil	-	1	1	1	Skydrol 500	-	4	-	-
ASTM Fuel A	-	2	-	-	Hydrochloric Acid (cold) 37%	-	4	2	2	Skydrol 700	-	4	-	-
ASTM Fuel B	-	3	-	-	Hydrochloric Acid (hot) 37%	-	4	-	-	Soap Solutions	1	3	3	1
ASTM Fuel C	-	3	1	1	Hydrofluoric Acid (Conc.) Cold	-	3	-	-	Sodium Chloride (aq)	1	1	1	1
Barium Chloride (aq)	-	1	1	1	Hydrochloric Acid (Conc.) Hot	-	4	-	-	Sodium Hydroxide (aq)	2	4	2	1
Beer	1	2	1	1	Hydrogen Gas	1	1	1	1	Sodium Peroxide (aq)	-	4	1	2
Beet Sugar Liquors	-	4	1	1	Isobutyl Alcohol	-	4	-	-	Sodium Phosphate (aq)	-	1	-	-
Benzene	1	3	3	3	Isooctane	-	2	-	-	Sodium Sulfate (aq)	-	1	1	1
Benzine	-	2	-	-	Isopropyl Acetate	-	4	2	4	Soy Bean Oil	-	2	1	1
Blast Furnace Gas	-	4	-	-	Isopropyl Alcohol	1	3	-	-	Steam Under 300°F	4	4	-	-
Bleach Solutions	-	4	-	1	Isopropyl Ether	-	2	1	2	Steam Over 300°F	4	4	-	-
Borax	-	1	1	2	Kerosene	1	1	3	4	Stoddard Solvent	-	1	3	3
Boric Acid	-	1	1	1	Lacquers	-	4	2	3	Styrene	-	3	-	4
Brake Fluid	-	4	-	-	Lacquer Solvents	-	4	2	3	Sucrose Solution	-	4	-	-
Brine	-	2	4	3	Lard	-	1	2	1	Sulfuric Acid (Dilute)	-	3	1	1
Bromine Water	4	4	-	-	Lavender Oil	-	4	-	-	Sulfuric Acid (Conc.)	-	4	3	4
Bunker Oil	-	2	-	-	Lead Acetate (aq)	-	4	1	1	Sulfuric Acid (20% Oleum)	-	4	-	-
Butane	1	1	3	3	Linseed Oil	1	2	3	1	Sulfurous Acid	-	3	2	1
Butter	-	1	-	-	Liquid Petroleum Gas	-	-	-	-	Tannic Acid	-	1	2	1
Butyl Alcohol	3	4	1	2	Lubricating Oils	-	2	4	2	Tetrochloroethylene	-	4	2	4
Butylene	-	4	1	1	Lye	-	4	-	-	Toluene	1	4	3	4
Calcium Chloride (aq)	1	1	2	1	Magnesium Chloride (aq)	1	1	1	1	Transformer Oil	-	1	-	-
Calcium Hydroxide (aq)	-	1	2	1	Magnesium Hydroxide (aq)	-	4	1	1	Transmission Fluid Type A	-	1	-	-
Calcium Nitrate (aq)	1	1	-	-	Mercury	1	1	1	2	Trichloroethane	3	4	-	3
Calcium Sulfide (aq)	-	1	-	-	Methane	1	3	-	-	Trichloroethylene	3	4	3	4
Cane Sugar Liquors	-	4	-	1	Methyl Acetate	1	4	2	4	Turbine Oil	-	1	3	1
Carbolic Acid	-	3	2	3	Methyl Acrylate	-	4	-	-	Turpentine	1	4	3	2
Carbon Dioxide	-	1	3	1	Methyl Alcohol	1	4	1	1	Varnish	-	3	3	4
Carbon Acid	-	1	2	1	Methyl Butyl Ketone	-	4	-	1	Vinegar	1	4	2	1
Carbon Monoxide	-	1	2	1	Methyl Chloride	3	4	3	4	Vinyl Chloride	-	4	-	-
Carbon Tetrachloride	3	4	2	2	Methylene Chloride	-	4	3	4	Water	1	1	1	1
Castor Oil	-	1	-	1	Methyl Ethyl Ketone	1	4	2	4	Whiskey, Wines	1	2	3	1
Chlorine (dry)	4	4	2	1	Methyl Isobutyl Ketone	1	4	-	-	White Oil	-	1	-	-
Chlorine (wet)	4	4	-	-	Milk	1	4	1	1	Wood Oil	-	3	-	-
Chloroform	3	4	3	4	Mineral Oil	1	1	2	1	Xylene	2	4	3	4
Chlorox	-	4	-	-	Naphtha	1	2	1	3	Zinc Acetate (aq)	-	4	-	-
Chromic Acid	4	4	1	1	Naphthalene	1	2	1	4	Zinc Chloride (aq)	1	1	1	1
Citric Acid	1	1	1	2	Natural Gas	-	2	-	-					
Coal Tar	-	3	-	-	Neatsfoot Oil	-	1	-	-					
Coconut Oil	-	2	-	1	Nitric Acid (Conc.)	4	4	3	4					
Cod Liver Oil	-	1	-	1	Nitric Acid (Delute.)	4	3	-	4					
Coke Oven Gas	-	4	-	-	Nitroethane	-	4	-	-					
Copper Chloride (aq)	-	1	2	1	N-Octane	-	4	-	-					
Copper Cyanide (aq)	-	1	2	1	Oleic Acid	1	2	3	3					
Corn Oil	-	1	3	2	Oleum Spirits	-	3	4	4					
Cotton Seed Oil	-	1	2	2	Olive Oil	-	1	1	3					
Creosol	4	4	3	4	Oxygen-Cold	1	1	-	-					
Cychlohexane	1	1	2	4	Oxygen (200-400°F)	-	4	-	-					
Denatured Alcohol	-	4	-	-	Paint Thinner, Duco	-	4	-	-					
Detergent Solution	-	4	1	1	Perchloric Acid	-	4	-	-					
Diesel Oil	-	3	3	1	Perchloroethylene	3	4	4	3					
Dioxane	-	4	-	-	Petroleum- Below 250°F	-	2	-	-					
Dowtherm Oil	-	3	-	-	Petroleum- Above 250°F	4	4	-	-					
Dry Cleaning Fluids	-	4	-	-	Phenol	4	3	2	3					
Ethane	-	3	-	4	Phenyl Ethyl Ether	-	4	-	-					
Ethyl Acrylate	-	4	-	-	Phosphoric Acid 45%	2	1	2	2					
Ethyl Alcohol	3	4	-	-	Pickling Solution	-	4	-	-					
Ethyl Benzene	-	4	-	-	Picric Acid	3	2	-	4					
Ethyl Cellulose	-	2	-	-	Potassium Acetate (aq)	-	4	-	-					
Ethyl Chloride	-	2	-	-	Potassium Chloride (aq)	-	1	1	1					
Ethyl Ether	-	3	-	-	Potassium Cyanide (aq)	-	1	1	1					
Ethylene Chloride	-	4	3	4	Potassium Hydroxide (aq)	3	4	1	1					
Ethylene Glycol	2	4	1	1	Producer Gas	-	1	1	1					
Ethylene Oxide	1	4	3	3										

Note: the ratings provided are very general guidelines to be referred to only for initial screening purposes. Specific tubing compounds can be positively or negatively affected by varying temperatures, chemical mixtures and/or static vs. dynamic applications. *Careful testing under actual conditions is essential.* **Accuracy for these ratings is not given or implied.**

N= Nylon PUR= Polyurethane
PE= Polyethylene
PVC= Polyvinyl Chloride

Ratings:

- 1= Little or no impact
- 2= Minor effect
- 3= Moderate effect
- 4= Severe effect