

The following ratings are general guidelines, designed only to be used as an initial screening tool. Keep in mind that dynamic vs. static application, temperature, and chemical mixtures can significantly affect or change these ratings either positively or negatively. Careful testing under actual conditions is essential. Accuracy for these ratings is not given or implied.

Cable Type
Sensor Jackets

PUR = Polyurethane
P/E = Polyethylene
PVC = Polyvinylchloride (vinyl)

RATINGS:

1 = little or no effect
2 = minor effect
3 = moderate effect
4 = severe effect

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