



CHEMICAL RESISTANCE CHARTS



The information contained in this chart is to be used **ONLY** as a guide for selecting materials with the appropriate chemical compatibility. The material should be tested with the chemicals and under the specific conditions of your application before permanent installation.

The ratings of chemical behavior apply to a 48-hour exposure period; SensorTec, Inc. has no knowledge of possible effects beyond this period. SensorTec, Inc. does not warrant, neither express nor implied, the information in this chart to be accurate or complete or that any material is suitable for any purpose.

Ratings - Chemical Behavior

A-No effect; **B**-Minor effect; **C**-Moderate effect; **D**-Severe effect - not recommended; - No data available

CHEMICAL	Plastics				Metals					CHEMICAL	Plastics				Metals				
	Nylon	Polypropylene	PTFE (Teflon®)	PVC	304 Stainless Steel	316 Stainless Steel	Aluminum	Cast Iron	Hastelloy-C®		Nylon	Polypropylene	PTFE (Teflon®)	PVC	304 Stainless Steel	316 Stainless Steel	Aluminum	Cast Iron	Hastelloy-C®
Methyl Acetone	A	-	A	D	A	A	A	A	-	Coconut	-	A1	A	A1	A	A	A	A	A
Methyl Acrylate	-	D	-	-	A	-	-	A	-	Cod Liver	-	A1	A	A1	A	A	A	-	A
Methyl Alcohol 10%	B1	A2	A	A1	A	A	A1	A	A	Corn	A	A2	A	B	A	A	A	-	A
Methyl Bromide	B1	C	A	D	A	A	D	A	-	Cottonseed	B	A	A	B2	A	A	A	-	A
Methyl Butyl Ketone	D	D	-	A	A	A	-	-	-	Creosote	D	C	A	C	B	B	B	-	B
Methyl Cellosolve	C	B	A	D	B	B	B	C	-	Diesel Fuel (20, 30, 40, 50)	A	A1	A	B	A	A	A	-	B
Methyl Chloride	B1	D	A	D	A	A	D	D	B	Fuel (1, 2, 3, 5A, 5B, 6)	A	B	A	A2	A	A	C1	A	A1
Methyl Dichloride	C	D	-	A	-	-	-	-	-	Ginger	-	-	A	-	D	D	-	-	-
Methyl Ethyl Ketone	A1	B	A	D	A	A	B	A	A	Hydraulic Oil (Petro)	A1	D	A	A	A	A	A	-	A
Methyl Ethyl Ketone Peroxide	-	-	-	-	-	-	-	-	-	Hydraulic Oil (Synthetic)	A1	D	A	A	A	A	A	-	A
Methyl Isobutyl Ketone	B2	A	A	D	B	B	B	C	A	Lemon	-	-	A	-	A	A	A	-	-
Methyl Isopropyl Ketone	A	-	A	D	A	A	A	C	-	Linseed	A1	A	A	A2	A	A	B	-	B
Methyl Methacrylate	-	D	-	A	B	B	-	C	-	Mineral	A	A	A	B	A	A	A	-	A
Methylamine	-	A2	A	D	A	A	A	A	-	Olive	A1	A	A1	C	A	A	A	-	A
Methylene Chloride	C1	B1	A	D	B	B	C	B	B	Orange	-	A	-	C1	A	A	A	-	A
Milk	A	B	A	A2	A	A	A	D	A	Palm	-	-	A	A	A	A	-	A	-
Mineral Spirits	A	B	A	A	A	A	A	B	B	Peanut	-	D	A	A1	A	A	A	-	-
Molasses	A1	B	A	A	A	A	A	B	A	Peppermint	-	-	A	-	A	A	D	-	-
Monochloroacetic Acid	D	-	A2	-	A1	A1	D	D	A2	Pine	A	B	A	D	A	A	A	C	-
Monoethanolamine	A	B	A	D	A	A	B	A	-	Rapeseed	-	D	A	-	A	A	-	A	-
Morpholine	A2	B2	A2	-	-	A1	A1	-	A1	Rosin	A1	A2	A	C1	A1	A1	B1	-	A
Motor Oil	A2	A1	A	B	A1	A2	A1	-	-	Sesame Seed	-	A	A	A	A	A	-	A	-
Mustard	A	A	A	B	A	A	B	D	A	Silicone	A1	A	A	A	A	A	A	-	A
Naphtha	A	B	B	A1	A	A	A	B	B	Soybean	A	A1	A	A1	A	A	A	-	A
Naphthalene	A1	B	A	D	A	A	B1	A	A	Sperm (whale)	-	-	A	-	A	A	-	A	-
Natural Gas	-	A	A	A	A	A	A	A	-	Tanning	-	-	-	-	A	A	-	-	-
Nickel Chloride	C1	A	A	A	D	C	D	D	B	Transformer	A1	B	A	B	A	A	A	-	-
Nickel Nitrate	A1	A2	A2	A	B	B2	D	C	B2	Turbine	A	B1	A	A1	A	A	A	-	-
Nickel Sulfate	A1	A	A	A	B	B1	D	D	B	Oleic Acid	A	B1	A	C2	A	A	A	-	A2
Nitrating Acid (<1% Acid)	-	C	A	D	C	A	D	-	A	Oleum 25%	D	D	A	D	B2	B	B	-	A
Nitrating Acid (<15% H ₂ SO ₄)	-	C	A	D	C	C	D	C	A	Oleum 100%	D	D	A	D	A	A	B	-	D
Nitrating Acid (>15% H ₂ SO ₄)	-	C	A	D	C	C	D	C	A	Oxalic Acid (cold)	B2	A2	A1	B	B	A	A	C	B
Nitrating Acid (< 15% HNO ₃)	-	C	A	D	C	D	D	C	A	Ozone	D	B	A	B	B	A	B	-	-
Nitric Acid (5-10%)	D	A	A	A1	A	A	A	D	A1	Palmitic Acid	A	B1	A2	B1	B1	A1	B	-	B
Nitric Acid (20%)	D	A2	A	A1	A	A	D	D	A1	Paraffin	A1	A1	A	B	A	A	A	-	B
Nitric Acid (50%)	D	B	A	B1	A2	A1	D	D	A1	Pentane	A1	D	A	A	C	C	B	-	A
Nitric Acid (Concentrated)	D	D	A	B1	A1	A1	D	D	B1	Perchloric Acid	D	C	A	C	C	C	D	-	B
Nitrobenzene	B1	B1	A	D	B	B	B	C	D	Perchloroethylene	C1	D	A	C1	B	A1	C	-	B
Nitrogen Fertilizer	-	-	A	-	-	-	-	-	-	Petrolatum	D	D	C	B	A	A	-	-	-
Nitromethane	B1	B2	A	B2	A	A1	A	-	A	Petroleum	A1	B1	A2	-	A1	A1	D	-	-
Nitrous Acid	-	A	A	A	B	B	D	-	D	Phenol (10%)	D	B1	A	C1	B	B	A	D	B
Nitrous Oxide	C	D	A	A	B	B	B	-	B	Phenol (Carbolic Acid)	D	B	A	D	B	B	A	D	A
Oils: Aniline	A	A	A	D	A	A	D	A	B	Phosphoric Acid (<40%)	B1	A2	A	B	D	C	C	D	A2
Anise	-	-	-	-	-	A	-	A	-	Phosphoric Acid (>40%)	B1	A2	A	B	D	D	C	D	A2
Bay	-	-	-	-	-	A	-	A	-	Phosphoric Acid (crude)	B1	B2	A	B2	D	B	C	D	A2
Bone	-	A	A	-	-	A	-	A	-	Phosphoric Acid (molten)	-	D	-	D	-	C	C	-	C
Castor	A	A	A	A	A	A	A	A	-	Phosphoric Acid Anhydride	-	A	-	-	-	-	C	-	-
Cinnamon	-	D	A	D	A	A	-	-	-	Phosphorus	-	A	A2	A1	A2	A2	B	-	A2
Citric	A	A	A	B	A	A	A	D	A	Phosphorus Trichloride	-	-	A2	D	A1	A2	D	-	A2
Clove	-	-	A	-	A	A	B	-	A	Photographic Developer	-	A	A	A	A	A	-	D	B

Footnotes:

- Satisfactory to 72° F (22°C)
- Satisfactory to 120° F (48°C)