

Chemical Compatibility Chart (J – M)

Material \ Chemical	303 Stainless Steel		304 Stainless Steel (CF-8)		316 Stainless Steel (CF-8M)		410 Stainless Steel (CA-15)		440 Stainless Steel		Aluminium	Titanium	Hastelloy C	Cast Bronze	Brass	Cast Iron	Carbon Steel	PVC	Teflon	Noryl	Nylon	Polyethylene	Polypropylene	Ryton	Carbon	Ceramic	Milon®	Buna N (Nitrile)	Silicon	Neoprene	Ethylene Propylene (EPDM)	Natural Rubber	Epoxy				
	303	304	316	410	440	Aluminium	Titanium	Hastelloy C	Cast Bronze	Brass	Cast Iron	Carbon Steel	PVC	Teflon	Noryl	Nylon	Polyethylene	Polypropylene	Ryton	Carbon	Ceramic	Milon®	Buna N (Nitrile)	Silicon	Neoprene	Ethylene Propylene (EPDM)	Natural Rubber	Epoxy									
Jet Fuel (JP3, JP4, JP5)	A	A	A	A	-	A	-	A	-	A	-	A	-	A	-	A	A	A	D	A	-	D	A	A	A	A	A	D	D	D	D	A					
Kerosene	A	A	A	-	A	A	A	A	A	A	A	B	A	A	D	A	D	D	A	A	A	A	A	A	A	A	A	D	D	A	D	A					
Ketones	A	A	A	-	B	A	A	A	-	A	A	D	A	D	A	D	D	A	C	A	-	C	A	-	A	A	D	D	-	D	D	C	A				
Lacquers	A	A	-	-	A	-	-	A	C	C	C	-	-	C	A	D	A	-	B	-	-	A	-	D	-	D	A	-	-	-	-	-					
Lacquer Thinners	-	-	A	-	-	-	A	A	-	C	-	-	C	A	D	A	-	B	-	-	A	-	D	-	D	A	-	-	-	-	-	-					
Lactic Acid	A	A	B	A	C	C	A	A	D	-	D	D	A	A	C	B	A	A	A	A	A	B	B	A	B	B	A	B	A	B	A	A					
Lard	B	A	A	-	A	A	-	A	-	A	-	A	C	A	-	A	C	A	-	-	A	A	A	A	A	A	A	C	B	-	-	-	-				
Latex	-	A	A	-	-	A	-	-	A	-	-	-	-	-	A	A	B	-	-	-	A	A	A	-	C	A	-	-	-	-	-	-					
Lead Acetate	B	A	A	-	D	A	A	C	-	-	D	A	A	A	A	B	A	-	A	A	D	B	-	D	B	-	D	A	A	A	A	A					
Lead Fluoborate Plating	-	-	C	-	-	D	A	-	-	-	-	-	A	A	A	D	-	A	-	-	D	A	B	-	C	A	-	-	-	-	-	-	-				
Lead Sulfamate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ligroin	-	-	A	-	-	-	-	-	A	-	-	-	-	D	-	-	D	-	-	-	A	-	-	-	A	B	C	A	D	C	A	A					
Lime	-	A	A	-	-	C	A	-	-	A	-	A	-	-	A	-	-	-	-	-	A	A	A	A	C	B	D	-	-	-	-	-	-				
Lubricants	-	A	A	A	-	A	A	A	B	-	-	A	A	-	A	-	A	-	-	-	A	A	A	A	A	A	A	C	D	-	-	-	-				
Magnesium Carbonate	-	A	A	A	-	-	B	-	-	-	-	-	A	-	A	-	-	-	-	-	B	A	-	-	-	-	-	-	-	-	-	-	-				
Magnesium Chloride	B	B	B	D	A	D	A	A	B	C	D	C	A	A	A	A	B	A	A	-	A	A	A	-	A	A	-	A	A	A	A	A	A				
Magnesium Hydroxide	A	A	A	-	D	A	A	C	B	B	B	B	A	A	A	B	A	A	A	A	A	B	A	A	A	B	-	B	-	-	-	-	-				
Magnesium Nitrate	-	A	A	-	A	-	A	A	-	-	-	-	A	A	A	A	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Magnesium Oxide	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Magnesium Sulfate	B	B	A	-	B	A	B	B	B	C	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A	A	-	A	D	C	A	A	A				
Maleic Acid	C	A	A	C	A	B	A	A	C	-	-	B	A	A	A	A	-	C	-	-	A	A	A	D	-	A	D	-	A	D	D	A	A				
Maleic Anhydride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Malic Acid	B	A	A	-	C	-	A	D	-	-	D	A	A	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Mash	-	A	A	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Mayonnaise	A	A	A	-	D	-	D	-	D	D	D	D	A	A	A	A	-	A	-	-	A	A	A	A	A	A	-	-	-	-	-	-	-	-			
Melamine	-	D	D	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Mercuric Chloride (Dilute solution)	D	D	D	D	D	D	A	B	D	D	D	D	A	A	A	A	B	A	-	-	A	A	A	A	A	-	A	A	A	A	A	A	A	A			
Mercuric Cyanide	A	A	A	-	D	A	-	D	-	-	D	A	A	A	A	-	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mercury	A	A	A	A	A	C	C	A	D	D	A	A	A	A	A	A	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methanol	See Methyl Alcohol																																				
Methyl Acetate	A	-	A	B	-	A	-	A	A	-	-	B	-	A	-	-	-	-	-	-	-	-	-	-	A	A	D	D	D	B	B	D	-	-			
Methyl Acetone	A	-	A	A	-	A	-	A	-	A	-	A	A	-	A	A	-	A	D	-	-	-	-	-	A	D	D	-	D	-	-	-	-	-	-		
Methyl Alcohol 10%	A	-	A	A	-	C	-	A	C	-	-	B	A	A	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Alcohol	-	A	A	A	B	A	A	A	C	A	A	B	A	A	A	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Bromide	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Butyl Ketone	-	-	A	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Cellosolve	-	-	-	A	-	A	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Chloride	-	C	A	A	-	D	A	A	A	-	-	-	-	D	A	D	A	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Dichloride	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Ethyl Ketone	-	A	A	A	-	A	A	A	A	-	-	-	D	A	D	A	D	A	A	A	A	A	A	A	A	A	D	D	C	D	A	D	B	A	A		
Methyl Isobutyl Ketone	-	-	A	-	-	-	A	A	-	-	-	-	-	D	A	D	A	-	C	A	A	A	A	A	D	D	C	D	C	D	C	D	B	A	A		
Methyl Isopropyl Ketone	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Methacrylate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylamine	A	-	A	-	-	A	-	-	D	-	B	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride	A	A	A	-	-	A	A	A	A	C	-	B	D	A	D	D	D	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Milk	A	A	A	D	A	A	-	-	C	C	D	D	A	-	A	A	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molasses	A	A	A	A	A	A	-	-	A	B	A	A	A	-	B	A	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mustard	A	A	A	-	A	B	-	-	B	-	C	B	A	-	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Chemical Resistance Legend

- A ▶ No Effect – Excellent
- B ▶ Minor Effect – Acceptable
- C ▶ Moderate Effect – Questionable
- D ▶ Severe Effect – Not Recommended
- ▶ No Information

Note

These recommendations are based upon information from material suppliers and careful examination of available published information. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors, this chart should be considered as general guide. The customer must determine the suitability of the material used in various solutions.

All recommendations assume ambient temperature unless otherwise stated.