

# Chemical Compatibility Chart (U – Z)

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	Rylon	Carbon	Ceramic	Milon®	Buna N (Nitrile)	Silicon	Neoprene	Ethylene Propylene (EPDM)	Natural Rubber	Epoxy						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B			
Urine	-	A	A	A	-	B	-	-	A	B	-	C	-	B	-	C	-	A	-	A	A	B	A	-	A	A	A	A	-	D	A	-	A	-	A				
Varnish	A	A	A	B	A	A	-	-	A	B	-	C	-	D	-	C	-	A	D	A	-	A	-	A	A	A	A	B	C	D	-	D	A	A					
Vegetable Juice	-	A	A	A	-	A	-	-	A	B	-	C	-	D	-	C	-	A	-	A	A	-	-	-	-	A	A	A	A	B	D	-	D	A	A				
Vinegar	A	A	A	A	A	D	A	A	B	B	C	D	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	C	-	B	A	C	A	A				
Water, Acid Mine	-	A	A	A	-	C	-	-	C	D	C	-	A	-	A	A	-	A	-	A	A	-	A	B	A	A	A	A	-	B	-	B	A	A	A				
Water, Distilled, Lab Grade 7	-	A	A	A	-	B	-	-	A	-	D	-	A	-	A	A	-	A	A	A	A	-	A	A	A	A	A	A	-	B	A	A	A	A	A				
Water, Fresh	A	A	A	A	-	A	-	-	A	C	B	D	A	A	A	A	A	A	A	A	A	D	A	A	A	A	A	A	-	B	A	A	A	A	A				
Water, Salt	-	A	A	B	-	B	-	-	B	C	D	-	A	-	A	A	-	A	-	A	A	-	A	A	A	A	A	A	-	B	A	A	A	A	A				
Weed Killers	-	A	A	-	-	C	-	-	C	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	A	A	A	B	-	C	-	-	-	A	A				
Whey	-	A	A	-	-	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	A	-	-	-	-	-	-	A	A			
Whiskey and Wines	A	A	A	B	A	D	-	-	B	B	D	D	A	A	A	A	A	A	A	A	A	B	A	-	A	A	A	A	B	A	A	A	A	A	A	A			
White Liquor (Pulp Mill)	-	A	A	-	-	-	-	A	D	-	C	-	A	A	A	A	-	A	-	A	-	-	-	-	A	A	A	-	A	-	-	-	-	-	A	A			
White Water (Paper Mill)	-	A	A	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	-	-	-	-	-	-	-	-	A	A		
Xylene	A	A	A	A	-	A	-	-	A	A	A	A	B	D	A	D	A	D	A	D	A	D	A	A	A	A	A	D	D	D	D	D	D	D	A	A			
Zinc Chloride	D	A	B	D	B	D	A	B	D	D	D	D	D	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	-	A	A	A	A	A	A	A			
Zinc Hydrosulfate	B	A	A	-	A	D	A	B	B	C	D	C	D	C	A	A	A	B	A	A	A	B	A	A	A	A	A	A	-	A	A	A	A	C	A	A			
Zinc Hydrosulphite	-	-	A	-	-	D	-	-	D	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	A	A	-	A	-	A	A	-	-	-	-	A			
Zinc Plating	-	-	D	-	-	-	A	D	-	-	-	-	-	-	-	-	-	-	-	A	A	A	D	-	A	-	-	A	A	A	-	A	-	-	-	A	A		
Acid Chloride 60°C	-	-	C	-	-	-	A	A	-	-	-	-	-	-	-	-	-	-	-	D	A	A	D	-	A	-	-	A	A	A	-	B	-	-	-	D	A		
Acid Sulfate Bath 65°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	
Acid Fluoborate Bath R.T.	-	-	-	-	-	C	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	A	B	-	C	-	-	-	-	-	A	A	
Alkaline Cyanide Bath R.T.	-	-	-	-	-	A	-	A	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A
Zinc Sulfate	B	A	A	A	A	D	A	B	B	C	C	D	C	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	-	A	A	A	A	C	A	A	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.