

Chemical Resistance Charts

- Ratings -**
- Chemical Behavior**
- A - No effect**
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- C - Moderate effect**
- D - Severe effect; not recommended**
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CHEMICAL	Plastics					Elastomers					Metals					Non-Metals
	ABS Plastic Acetal (Delrin®) CPVC Epoxy Hytrel®	LDPE NORYL® Nylon Polycarbonate Polypropylene	PPS (Ryton®) PTFE (Teflon®) PVC PVDF (Kynar®)	Buna N (Nitrile) EPDM Hypalon® Kel-F®	Natural Rubber Neoprene Silicone Tygon® Viton®	17-4 PH Stainless Steel Aluminum Copper Brass Bronze	Cast Iron Ductile Iron/Cast Steel CD/MCu Alloy 20 Hastelloy-B® Hastelloy-C®	Titanium								
Acetaldehyde	D A D A -	C - A C' A'	A A D D	D A C A C	C A D D	A ² A A - B - A A	C A ³ A ⁴ - A ⁴ A A A	A -								
Acetamide	- A - A -	A - A D A'	A A D C	A A B A D	B B D B	- B A - A - - D	D - - - -	A -								
Acetate Solvent	- - C A -	A D A - B'	A A D A	C A C A' C	D C D D	- A A - A A A C	D - - A - A A A	A -								
Acetic Acid	D D C C -	A ² A D B' B	A A D C	C A C A B	C C D B	D D B C ⁴ B B D C	D D A ⁴ A A ⁴ A A A A	A A -								
Acetic Acid 20%	C C A A ¹ -	A A D A' A	A A D A	B A A A B	A B D B	- B A - B B D C	D - - A - A A A	A A A								
Acetic Acid 80%	D D C B ¹ -	D A D B' A	A A C C	C A C A C	C B D B	- D B - B B D C	D - - A - A A A	A A A								
Acetic Acid, Glacial	D D B ¹ B ¹ A ¹	D A B B' A'	A A D A ¹	C B C A ² C	D B D D	- C A - B B - C	D - - A - A A A	A A A								
Acetic Anhydride	C ¹ D D C C	D D A ¹ D B'	A A D B'	D B A A C	A C D D	D B A A ¹ A ¹ B D C	D D A ⁵ B A ⁵ A A A A	A A -								
Acetone	D A D B ¹ B	B ¹ D A D A	A A D D	D A C A C	C D D D	A ⁵ A A ⁵ A A A A	A A ⁵ A A ⁵ A A A A	A A -								
Acetyl Bromide	- - - -	D - D - -	A D -	- - - -	- D -	- - - - -	- - - - -	- - - - -								
Acetyl Chloride (dry)	D D C D -	D D B D D	A A C A ²	D D D A D	D C C A	- A A - D A D -	B - - B - A -	- -								
Acetylene	- A C A A	D - A D A'	A A A ¹ A	B A B A B	B B A ¹ A	- A A - A D B C	A - - A -	A -								
Acrylonitrile	D - A A -	A - A ¹ D A ¹	- A B ¹ A ¹	D D C - B ¹	C D - D	- A ¹ A ¹ - B ¹ A A	A ¹ - - A ¹ - B	B -								
Adipic Acid	- - A ² A -	A - - - B ²	- A A ² A ²	C A ² - - A ¹	C - A ² A ²	- A ¹ A ² - A D -	A - - - -	A ² -								
Alcohols: Amyl	- A A ² B -	B ² C A ¹ B' B	A A A ² A	B A A A B	A D A ² B	- A A - B A A A	B - - A - A B	A A -								
Benzyl	D A A C -	D D B ¹ - A	A A D A	D B C A D	C - D A	- B B - B B - A	B - - A - A A	- A -								
Butyl	A ¹ A A ² A -	A A D A ² A	A A A ² A	C B A - A	C B A ² A	- A A - B A A A	B - - A - A A A	- A A -								
Diacetone	- A - A -	B ¹ A A - B ²	- A B ¹ A ¹	D A D B ¹ D	D D B ¹ D	- A A - A ¹ - A A A A	- A - A - A A A A	- A -								
Ethyl	B ¹ A ¹ B ¹ A ²	B A ¹ A ¹ B ² A	- A C -	C A A A A	A B C A	- A A - B A A A	B - - A - A A A	A A -								
Hexyl	- A - A -	A A A A -	- A A ² -	A C B - A	A B A ² C	- A A - A - - A	A - - A - A A -	- A -								
Isobutyl	B A - A -	A ² A A ¹ - A ¹	- A ² A ¹ -	B A A - A	A A A ¹ A	- A A - B - - A	C - - A - A B	A -								
Isopropyl	- A C A -	A ² A ¹ D A ² A ²	- A ² A ¹ -	B A A - A	B A A ¹ A A ⁴	B B A ¹ B B - A	A A ² A ² A A ⁴ A B	A A A A								
Methyl	D A A B ¹ B	B ¹ A B ¹ B ¹ A ²	A A A ¹ A	A A A A A ¹ A	A A A ¹ C	- A A - A ¹ B ¹ - A	A - - A - B A A A	A A A A								
Octyl	A ¹ A B ¹ A -	A A A A - - -	- - -	B A B - B	B B - B - A A - A A	- - A - C A - -	- A - C A - -	- -								
Propyl	B ¹ A A A -	A ² A ² D - A	A A A ¹ A ²	A A A - A	A A A ¹ A	- A A - A A A A A	- A - A - A A A A	A A -								
Aluminum Chloride	A - A A ¹ C	B ² A B ¹ A ¹	A A A ² A	A A B A A	A B A ² A	D B B D D B D D	D D D B ¹ A ⁴ A B	A A -								
Aluminum Chloride 20%	- C A B ¹ -	B A ¹ D A ¹	A A A ¹ A	A A B A A	A B A ¹ A	- D C ¹ - D - D D	- - C ¹ - A B A A B	A B A -								
Aluminum Fluoride	A C A A ¹ -	A ² A ¹ A ¹ -	A A A A ² A	A A A - B	A B A ² A	- D D - B ¹ D -	- D - C - B A A - B	A B A -								
Aluminum Hydroxide	B A A B ¹ -	A ² A A A ¹ B A	- A A ² A	A A A ² A ¹ D	A - A ² A	- A ¹ C ¹ - B ¹ D B C	A - - A ¹ - B B ¹ A -	A -								
Aluminum Nitrate	- B ² A A ² -	A ² - A ¹ A A ²	- A B ² A ²	A ² A ² A ² A ¹	A ¹ B ¹ B ² A ²	A ⁴ A A A ² D - -	- D A ⁴ - - - A A ² -	-								
Aluminum Potassium Sulfate 10%	- C B A ¹ -	A ² A ² D A ¹ A	- A A ² B	A A A A A	A A A ² A	- A A - C A ² A -	D - - A - C A A -	A -								
Aluminum Potassium Sulfate 100%	- C B A ¹ -	A ² A ² D A ² A	- A A ² -	A A A A A	A A A ² A	- D B ² - C B -	- D - B - D A A -	A -								
Aluminum Sulfate	A ² B ¹ A ² A ² B ¹	A ² A ² A ² A	A A A ² A	A A A A A	A A A ² A	D B B ² D B ¹ A ² B ¹ B	D D A ⁴ B A ⁵ B A A	A A -								
Alums	- - A A D A - A - A -	- A A -	- A A ¹ - - A	B A ¹ - A	- - A - A C - -	D - - A - B A -	- - A - B B A -	- -								
Amines	- D D A ² A ¹	C ¹ D D D B ²	B A ² D -	B B D A B	B B D D	- A A - B - B ¹ D	D - - B - B B A	- -								
Ammonia 10%	- D A A ² -	C ¹ A ¹ A D A ² A ¹ A B ¹ A	A A D A D	A - B ¹ D	- A A - A ² - -	D A - - A ¹ - A C A A	A A -									
Ammonia Nitrate	- C B A -	A A ¹ D - A C A B A C	A D -	C - B D	- A A - C - -	D A - - A -	- - - -	- -								
Ammonia, anhydrous	D D A ¹ A D	B ² B ¹ A ¹ D A A ¹ A A ² A	B A D A D	A C A ² D	A ⁵ A A ² A ⁵ A ¹ D D D	A A ⁴ A ⁵ A A ⁵ B C	A -									
Ammonia, liquid	- D A A ¹ -	C ¹ - B D A ² A ¹ A A ¹ A C	C A D A D	A - A ² D	- B ² A ² - A - -	D A - - B ² - B C A A	A -									
Ammonium Acetate	- A - A -	- A - A - A -	- A A -	- B A - -	- A - A A - A - C D	- - - - -	- - - - -	- -								
Ammonium Bifluoride	A ² D A A ¹ -	A ² A - A - A -	- A A ² A	B A ² - -	D - A ² A	D D B ¹ D B - -	D D A ³ B - B - A	A -								
Ammonium Carbonate	A ² D A A ² -	B ² A ² A ¹ - A	A A A A ² A	B A - -	A A C A ² A A ⁴ B B A ² B D D D	B A ³ C ⁴ B A ⁴ B A A A A	A A A A									
Ammonium Caseinate	- D - A -	- A - A - -	- - -	- A - -	A - - - A - -	- - - - -	- - - - -	- -								
Ammonium Chloride	A ² B A A ² A ¹	A ² A B A ² A	A A A A ² A	B A A A A	B C A ² A D C B ² D B ¹ D D D	D A ¹ D B - D B	A A A A									
Ammonium Hydroxide	B C A A ¹ C	A ¹ A A D A	A A A A D	D A A A D	A A A B C ⁴ A ¹ - B ² D D D D	B D ⁴ A ⁴ A A ⁴ B A A A A	A A A A									
Ammonium Nitrate	- A ² A ² A ² B ¹	A ¹ A A ¹ - A - A A ² A	A A A A C	B C A ² A A ² A ² B ¹ D D D	B ⁴ A ⁴ A D B A A A	A A -										
Ammonium Oxalate	- B - A -	- - - A ¹ A -	- A -	D A - -	- A - A A - C -	D D A ¹ - A - A -	- - - -	- -								
Ammonium Persulfate	A ² D A A ¹ -	A ² A ¹ D - A -	- A ¹ A ² A ¹	A B A A A	A D A ² A - A B - D D D D	D - - B - B A A A A	A A A A									
Ammonium Phosphate, Dibasic	A ² B ² A A ¹ -	A ² A C ¹ A ² A	A A ² A ² A	A A A A A	A A A ² A - B C - B ¹ D B ¹ D	D - - A ¹ - B A A A	A -									
Ammonium Phosphate, Monobasic	- B A A B ¹	A A B - A -	- A A -	A A A A - A	A A A A - B C - B D - D	D - - C - B A -	- - -									
Ammonium Phosphate, Tribasic	- B A A -	C A B - A -	- A A -	A A A A - A B B - B D - C	D - - - - B A -	- - - - B A -	- -									
Ammonium Sulfate	A ² B ¹ A A ² B ¹	A ¹ A A A ² A	A A A ² A	A A A A A	A A A ² A D B B C ¹ A ¹ D D D D	D B ¹ C ⁴ B C ⁴ B A A A A	A A A A									
Ammonium Sulfite	- D A - B ¹	B ² A ² A ² - A ² - A ² A ² -	A ¹ A ² A ² A ² A ²	A ¹ A ² A ² A ² A ²	A ¹ - A ² D D D D D	A D C ⁵ A ⁴ -	D - -									
Ammonium Thiosulfate	- B - A -	- A - - -	- - -	A A ¹ - -	A - - - A - D D D D D	- - - - A - -	A - -									
Amyl Acetate	D B D A ² C ¹	C ¹ D B ² D B ¹	A A D A ²	D A D A ¹ D	D D D D D A ⁵ A ¹ A A ² A A A A	C A ⁵ A ⁵ A A ⁵ A A A A	A A -									

Explanation of footnotes:

1. Satisfactory to 72°F(22°C)
 2. Satisfactory to 120°F(48°C)

3.Satisfactory to 167°F(75°C)

4.Satisfactory to 212°F(100°C)

5.Satisfactory to 257°F(125°C)



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