



Advance Products & Systems, LLC
 P.O. Box 60399
 Lafayette, LA 70596-0399
 337-233-6116 / 800-315-6009
 www.apsonline.com

SAFETY SPRAY SHIELD CHEMICAL RESISTANCE GUIDE

Material Legend

T = Teflon
 TP = Teflon Premium/Single Ply Teflon
 TC = Teflon Clear
 TW = Teflon White
 TAC = Teflon All Clear
 P = Polypropylene/Polypropylene Clear
 V = Vinyl (All Colors)
 PE = Polyethylene
 SSS/SSSX = 304/316 Stainless Steel
 ND = No Data Available
 * = Not Recommended

WARNING:

The information in this chart has been supplied to Advanced Products and Systems by other sources and is to be used ONLY as a guide in selecting equipment for appropriate chemical compatibility. Advanced Products and Systems does not warrant (neither express nor implied) that the information in this chart is accurate or complete or that any material is suitable for any purpose.

	Maximum Temperature (F)								
	T	TP	TC	TW	TAC	P	V	PE	SSS/SSSX
Acetaldehyde	450	450	450	450	450	75	*	*	ND
Acetic Acid (10%)	450	450	450	450	450	200	170	170	500+
Acetic Acid (50%)	450	450	450	450	450	200	170	170	500+
Acetic Acid (80%)	450	450	450	450	450	125	73	70	500+
Acetic Acid (glacial)	450	450	450	450	450	125	*	70	500+
Acetone (10-100%)	450	450	450	450	450	125	*	*	500+
Acetophenone	450	450	450	450	450	75	*	*	500+
Acetyl Chloride	450	450	450	450	450	*	*	ND	500+
Acetylene Tetrabromide	450	450	450	450	450	*	*	ND	500+
Acetylene Tetrachloride	450	450	450	450	450	*	*	ND	500+
Aluminium Chloride	450	450	450	450	450	200	170	170	ND
Aluminium Hydroxide	450	450	450	450	450	200	170	ND	500+
Aluminium Nitrate	450	450	450	450	450	200	170	ND	500+
Aluminum Oxychloride	450	450	450	450	450	125	170	ND	ND
Aluminum Sulfate	450	450	450	450	450	200	170	170	500+
Amonia (liquid)	450	450	450	450	450	200	*	70	500+
Ammonium Bromide (50%)	450	450	450	450	450	ND	*	*	500+
Ammonium Carbonate (saturated)	450	450	450	450	450	200	170	170	500+
Ammonium Chloride	450	450	450	450	450	200	170	170	500+
Ammonium Dichromate	450	450	450	450	450	125	*	ND	ND
Ammonium Fluoride (25%)	450	450	450	450	450	200	170	170	ND
Ammonium Fluoride (saturated)	450	450	450	450	450	175	ND	ND	ND
Ammonium Hydroxide (10%)	450	450	450	450	450	200	170	170	500+
Ammonium Hydroxide (concentrate)	450	450	450	450	450	200	*	170	500+
Ammonium Nitrate	450	450	450	450	450	150	170	170	500+
Ammonium Phosphate	450	450	450	450	450	200	170	ND	500+
Ammonium Sulfate	450	450	450	450	450	200	170	170	500+
Amyl Alcohol	450	450	450	450	450	75	170	170	ND

Aniline	450	450	450	450	450	125	*	*	ND
Aqua Regia	450	450	450	450	450	75	70	*	ND
Arsenic Acid	450	450	450	450	450	200	170	170	500+
Barium Carbonate	450	450	450	450	450	200	170	170	500+
	T	TP	TC	TW	TAC	P	V	PE	SSS/ SSSX
Barium Chloride	450	450	450	450	450	200	170	170	ND
Barium Hydroxide	450	450	450	450	450	200	170	170	ND
Barium Sulfate	450	450	450	450	450	200	170	170	ND
Barium Sulfide	450	450	450	450	450	200	70	70	ND
Benzaldehyde	450	450	450	450	450	75	*	*	500+
Benzenesulfonic Acid	450	450	450	450	450	75	170	170	500+
Benzoic Acid	450	450	450	450	450	150	170	170	500+
Benzylamine	450	450	450	450	450	150	ND	ND	ND
Benzyl Chloride	450	450	450	450	450	75	ND	ND	ND
Bismuth Carbonate	450	450	450	450	450	200	170	170	ND
Black Liquor	450	450	450	450	450	ND	170	ND	500+
Boric Acid	450	450	450	450	450	200	170	170	500+
Bromine (liquid)	450	450	450	450	450	*	*	*	*
Bromine Chloride	450	450	450	450	450	ND	*	ND	500+
Butyl Acetate	450	450	450	450	450	*	*	68	500+
Butyl Alcohol (butanol)	450	450	450	450	450	200	170	170	ND
Butyl Bromide	450	450	450	450	450	*	*	*	ND
Butyl Chloride	450	450	450	450	450	*	*	*	ND
Butyric Acid	450	450	450	450	450	175	73	*	500+
Calcium Bisulfide	450	450	450	450	450	200	170	170	500+
Calcium Bisulfite	450	450	450	450	450	200	170	ND	500+
Calcium Carbonate	450	450	450	450	450	200	170	170	500+
Calcium Chlorate	450	450	450	450	450	200	170	170	500+
Calcium Chloride (saturated)	450	450	450	450	450	200	170	170	500+
Calcium Chlorite	450	450	450	450	450	150	170	170	500+
Calcium Hydroxide (saturated)	450	450	450	450	450	200	170	170	500+
Calcium Hypochlorite	450	450	450	450	450	175	170	170	500+
Calcium Nitrate	450	450	450	450	450	200	170	170	ND
Calcium Oxide	450	450	450	450	450	200	170	170	ND
Calcium Sulfate	450	450	450	450	450	200	170	170	500+
Carbon Tetrachloride	450	450	450	450	450	*	*	*	500+
Chlorine Dioxide	450	450	450	450	450	*	*	*	*
Chromic Acid (50%)	450	450	450	450	450	125	72	73	500+
Chromic Acid (100%)	450	450	450	450	450	*	*	*	500+
Chromium Trioxide (30%)	450	450	450	450	450	125	170	ND	500+
Copper Carbonate (basic)	450	450	450	450	450	200	170	170	500+
Copper Chloride (saturated)	450	450	450	450	450	200	170	170	*
Copper Cyanide (10%)	450	450	450	450	450	200	170	170	500+
Copper Fluoride	450	450	450	450	450	200	170	170	500+
Copper Nitrate	450	450	450	450	450	200	170	170	500+
Copper Sulfate (saturated)	450	450	450	450	450	200	170	170	500+
Cresol	450	450	450	450	450	*	72	*	500+
Cresylic Acid (50%)	450	450	450	450	450	*	170	ND	500+
Cyclohexanone	450	450	450	450	450	*	*	68	500+
Diethylamine	450	450	450	450	450	75	*	*	ND
Diethyl Ether	450	450	450	450	450	*	*	ND	ND
Diisobutyl Ketone	450	450	450	450	450	75	*	*	500+
Disodium Phosphate	450	450	450	450	450	200	170	170	500+
Ethyl Acetate	450	450	450	450	450	125	*	73	500+

Ethyl Alcohol (ethanol)	450	450	450	450	450	175	170	170	500+
Ethyl Chloride	450	450	450	450	450	*	*	*	500+
Ethylene Dibromide	450	450	450	450	450	75	*	*	500+
Ethylene Dichloride	450	450	450	450	450	75	*	*	500+
Ethylene Glycol	450	450	450	450	450	125	170	170	500+
Ferric Chloride	450	450	450	450	450	200	170	170	500+
Ferric Nitrate	450	450	450	450	450	200	140	170	*
Ferric Sulfate	450	450	450	450	450	200	170	ND	500+
	T	TP	TC	TW	TAC	P	V	PE	SSS/ SSSX
Ferrous Chloride	450	450	450	450	450	200	170	170	500+
Ferrous Nitrate	450	450	450	450	450	200	170	170	*
Fluosilicic Acid	450	450	450	450	450	150	170	70	ND
Formaldehyde (50%)	450	450	450	450	450	175	170	170	ND
Formic Acid	450	450	450	450	450	125	70	170	500+
Gasoline (petroleum)	450	450	450	450	450	*	ND	ND	500+
Glucose	450	450	450	450	450	200	170	170	500+
Hydrobromic Acid (10%)	450	450	450	450	450	200	170	170	500+
Hydrobromic Acid (50%)	450	450	450	450	450	175	170	170	ND
Hydrochloric Acid (10-20%)	450	450	450	450	450	200	170	170	*
Hydrochloric Acid (35%)	450	450	450	450	450	200	170	170	500+
Hydrofluoric Acid (30%)	*	*	*	450	450	200	68	68	500+
Hydrofluoric Acid (50-60%)	*	*	*	450	450	200	68	68	500+
Hydrofluoric Acid (100%)	*	*	*	450	450	ND	*	*	500+
Hydrogen Peroxide (80-90%)	450	450	450	450	450	125	68		500+
Hydrogen Sulfide (aqueous)	450	450	450	450	450	175	170	170	500+
Lactic Acid (80%)	450	450	450	450	450	150	68	170	500+
Lauryl Chloride	450	450	450	450	450	175	72	ND	ND
Magnesium Carbonate	450	450	450	450	450	200	170	170	500+
Magnesium Chloride	450	450	450	450	450	200	170	170	500+
Magnesium Hydroxide	450	450	450	450	450	200	170	170	500+
Magnesium Nitrate	450	450	450	450	450	200	170	170	500+
Magnesium Sulfate (10%)	450	450	450	450	450	200	170	170	500+
Magnesium Sulfate (saturated)	450	450	450	450	450	200	ND	ND	500+
Magnesium Sulfate (10%-saturated)	450	450	450	450	450	75	170	170	500+
Mercuric Chloride	450	450	450	450	450	175	170	170	500+
Mercuric Nitrate	450	450	450	450	450	175	170	170	500+
Mercury	450	450	450	450	450	150	170	170	500+
Methyl Alcohol (methanol)	450	450	450	450	450	200	170	170	500+
Methyl Bromide	450	450	450	450	450	*	*	*	500+
Methyl Chloride	450	450	450	450	450	*	*	*	500+
Methyl Ethyl Ketone	450	450	450	450	450	125	*	*	500+
Methyl Salicylate	450	450	450	450	450	125	*	68	500+
Naphtha	450	450	450	450	450	125	170	*	500+
Nickel Chloride	450	450	450	450	450	200	170	170	500+
Nitric Acid (10%)	450	450	450	450	450	175	170	170	500+
Nitric Acid (30%)	450	450	450	450	450	150	170	170	500+
Nitric Acid (50%)	450	450	450	450	450	75	170	70	500+
Nitric Acid (70%)	450	450	450	450	450	*	73	*	500+
Nitric Acid (fuming)	450	450	450	450	450	*	*	*	500+
Oleum	450	450	450	450	450	*	*	*	500+
Perchloric Acid (10%)	450	450	450	450	450	150	104	104	500+
Perchloric Acid (70%)	450	450	450	450	450	75	*	68	500+
Phenol (5%)	450	450	450	450	450	200	72	70	500+
Phenol (100%)	450	450	450	450	450	150	ND	ND	500+

Phosgene (wet)	450	450	450	450	450	*	*	ND	ND
Phosphoric Acid (10-50%)	450	450	450	450	450	200	170	170	500+
Phosphoric Acid (50-85%)	450	450	450	450	450	200	170	170	500+
Phthalic Acid	450	450	450	450	450	75	68	170	500+
Potassium Aluminum Chloride	450	450	450	450	450	200	170	ND	ND
Potassium Aluminum Sulfate (50%)	450	450	450	450	450	200	170	ND	ND
Potassium Bicarbonate	450	450	450	450	450	200	170	170	500+
Potassium Borate	450	450	450	450	450	200	170	170	ND
Potassium Bromate	450	450	450	450	450	200	170	170	ND
Potassium Bromide	450	450	450	450	450	200	170	170	500+
Potassium Carbonate	450	450	450	450	450	200	170	170	500+
Potassium Chlorate	450	450	450	450	450	200	170	170	500+
	T	TP	TC	TW	TAC	P	V	PE	SSS/SSSX
Potassium Chloride	450	450	450	450	450	200	170	170	500+
Potassium Chromate	450	450	450	450	450	200	170	170	ND
Potassium Cyanide	450	450	450	450	450	200	170	170	ND
Potassium Fluoride	450	450	450	450	450	175	170	170	500+
Potassium Hydroxide (10%)	450	450	450	450	450	200	170	170	500+
Potassium Hydroxide (50%)	450	450	450	450	450	175	170	170	500+
Potassium Hydroxide (60-90%)	450	450	450	450	450	150	ND	ND	500+
Potassium Hypochlorite	450	450	450	450	450	175	170	ND	ND
Potassium Nitrate	450	450	450	450	450	175	170	170	500+
Potassium Sulfate	450	450	450	450	450	200	170	170	500+
Potassium Sulfide	450	450	450	450	450	175	104	170	500+
Propylene Dibromide	450	450	450	450	450	75	ND	ND	ND
Propylene Dichloride	450	450	450	450	450	75	*	*	500+
Sodium Bromide	450	450	450	450	450	200	170	170	500+
Sodium Chlorate	450	450	450	450	450	200	170	170	500+
Sodium Chloride	450	450	450	450	450	200	170	170	500+
Sodium Chlorite	450	450	450	450	450	175	170	68	500+
Sodium Fluoride (saturated)	450	450	450	450	450	175	170	170	500+
Sodium Hydroxide (<10%)	450	450	450	450	450	200	170	170	500+
Sodium Hydroxide (10-50%)	450	450	450	450	450	200	170	170	500+
Sodium Hydroxide (>50%)	450	450	450	450	450	150	170	170	ND
Sodium Hypochlorite	450	450	450	450	450	150	170	170	500+
Sodium Iodide	450	450	450	450	450	175	104	68	ND
Sodium Nitrate	450	450	450	450	450	175	170	170	500+
Sodium Nitrite	450	450	450	450	450	175	170	68	500+
Sodium Peroxide	450	450	450	450	450	125	170	ND	500+
Sodium Phosphate	450	450	450	450	450	175	170	170	500+
Sodium Silicate	450	450	450	450	450	200	170	170	500+
Sodium Sulfate	450	450	450	450	450	200	170	170	500+
Sodium Sulfide	450	450	450	450	450	150	104	170	500+
Sodium Sulfite	450	450	450	450	450	150	170	170	500+
Stannic Chloride	450	450	450	450	450	200	170	170	*
Sulfur Chloride	450	450	450	450	450	75	170	ND	*
Sulfuric Acid (10%)	450	450	450	450	450	200	170	170	500+
Sulfuric Acid (16%)	450	450	450	450	450	200	170	170	500+
Sulfuric Acid (30%)	450	450	450	450	450	200	170	170	500+
Sulfuric Acid (60%)	450	450	450	450	450	200	170	70	500+
Sulfuric Acid (85%)	450	450	450	450	450	175	*	*	500+
Sulfuric Acid (93-98%)	450	450	450	450	450	73	*	*	500+
Sulfuric Acid fuming (>98%)	450	450	450	450	450	*	*	*	500+
Tannic Acid	450	450	450	450	450	150	170	170	500+

Titanium Tetrachloride	450	450	450	450	450	*	*	*	500+
Toluene	450	450	450	450	450	*	*	*	500+
Trichloroacetic (10%)	450	450	450	450	450	150	72	ND	ND
Trichloroacetic (100%)	450	450	450	450	450	125	68	ND	*
Urea	450	450	450	450	450	200	170	170	500+
Zinc Chloride	450	450	450	450	450	175	170	170	500+
Zinc Nitrate	450	450	450	450	450	200	170	ND	500+
Zinc Sulfate	450	450	450	450	450	200	170	170	500+