

## Chemical Resistance

Chemical Agent	Concentration (%)	Temperature (°C)	PA	PPA	PBT	PET	PC	PP	POM
acetaldehyde	40	23	1				0	2	
acetic acid	5	23	2		2	2			2
acetic acid	10	23	1		2		2		1
acetic acid	25	23	0					2	
acetic acid	25	60	0					2	
acetic acid	50	23	0		1	1			
acetic acid	80	23	0					2	
acetic acid	95	23	0	0	0	0	0		0
acetone	100	23	2	2	0	0	0	2	2
acetone	100	50	2		0	0	0		2
acetylene	100	23	2		2	2	2	2	2
acrylic acid	100	60	0				0		0
alkyl alcohol	100	23	1		2	2	1	2	
alkyl benzene	100	23	2						2
alkyl chloride	100	23						2	
alkyl chloride	100	60						1	
amine	100	23	2		2	2			2
amino acid	100	23	2		2	2			2
ammonia	25	23	2		2	2		2	2
ammonia	100	23	2	2	1	1	0	2	2
ammonia	100	60	1		0	0	0	2	2
ammonium chloride	25	23	2					2	
aniline	100	23	1	1	1	1	1	2	
argon	100	23	2		2	2			2
benzene	100	23	2	2	2	2	0	1	2
benzene	100	60	2		0	0	0	1	2
benzoic acid	20	23	1		2	2	0	2	1
benzyl alcohol	100	23	1	0	0	0	0	2	2
benzylidene aldehyde	100	23	0				0		
biphenyl	100	23			0	0			2
bitumen	100	23	2		2	2			2
boric acid	10	23	1		2	2	2	2	1
boron trifluoride	100	23	0		0	0			0
brake fluid	100	23	2	2	2	2			2
bromine	100	23	0	0	0	0		0	0
bromochloro methane	100	23	2		2	2			2
butane	50	23	2	2	2	2	2	2	2
butanediol	100	23	2		2	2		2	2
butanol	100	23	2	2	1	1	2	2	2
butyl acetate	100	23	2		1	1	0	0	2
butyl phthalate	100	23	2		2	2		1	2
butyric acid	20	23	1		2	2	0	0	1
calcium chloride	20	23	0					2	2
calcium hydroxide	100	23	2		2	2		2	2
carbon dioxide	100	23	2		2	2		2	2
carbon disulfide	100	23	2				0	2	2
carbon monoxide	100	23	2		2	2		2	2
caustic soda	30	23	2				0	2	
caustic soda	30	60	0				0	2	
caustic soda	50	23	2		0	0	0	2	2

2 - good resistance // 1 - limited resistance // 0 - poor resistance

Chemical Agent	Concentration (%)	Temperature (°C)	PA	PPA	PBT	PET	PC	PP	POM
chlorine	100	23	0	0	0	0	0	0	0
chloro acetic acid	10	23	0		0	0			0
chloro benzene	100	23	2	2	2	2	0	0	2
chloro methane	100	23	0		0	0	0	1	1
chloro sulfonic acid	50	23	0		0	0		0	0
chloro trifluor ethane	100	23	2		2	2			2
chloroform	100	23	0	0	0	0	0	0	
chromic acid	3	23	0				2	1	
chromic acid	10	23	0		0	0		1	0
chromic acid	50	23	0		0	0		1	0
citric acid	10	23	2	2	2	2	2	2	2
cleaning agent, (acidic)	100	23	1		2	2	0		1
cleaning agent, general	100	23	2		2	2	1	2	2
cresol	100	23	0		0	0	0		
cyclohexanol	100	23	1		2	2		2	2
decalin	100	23	2		1	1	2		
dibutyl ether	100	23	x		2	2			2
dibutyl phthalate	100	23	2		2	2	0		2
dichlorobenzene	100	23	2					1	
dichloroethane	100	23	2		0	0		1	2
diethyl ether	100	23	2	2	2	2	0	1	2
diisopropyl ether	100	23	2		2	2			2
dimethyl ether	100	23	2		2	2		1	2
dimethyl sulfate	100	23						1	
ethane	100	23	2		2	2		2	2
ethanol	40	23	2	2	2	2	2	2	2
ethanol	100	23	1	2	2	2	2	2	2
ethanol	100	60	1					2	
ethyl acetate	100	23	2		0	0	0	2	2
ethyl chloride	100	23	2		0	0		1	
ethylene	100	23	2		2	2		2	2
ethylene chloride	100	23	2				0	1	
ethylene chlorohydrine	100	23	0				0	2	
ethylene glycol	100	23	2	2	2	2	2	1	2
ethylene oxide	100	23	1	2	2	2		1	2
fats	100	23	2	2	2	2			2
fluorine	100	23	0	0	0	0		0	0
formaldehyde	40	23	2	2	2	2	2	2	2
formaldehyde	100	23	2	1	2	2	2	1	2
formic acid	10	23	0	1	2	2	1	2	0
formic acid	80	23	0	0				2	
formic acid	80	60	0					1	
fuels, diesel	100	23	2	2	2	2	1		2
fuels, gasoline	100	23	2	2	2	2	1		2
gear oil	100	100	2		2	2			1
glycerol	100	23	2	2	2	2	1		2
glycol	50	100	1	1	0	0			2
glycol	100	23	2	2	2	2	2	2	2
heating oil	100	23	2	2	2	2			1
helium	100	23	2		2	2		1	2

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helium	100	60	2						
heptane	100	23	2	2	2	2	2	0	2
hexacholoro benzene	100	60	0						2
hexane	100	23	2		2	2	2		2
hydraulic fluids	100	80	2	2	2	2			2
hydrochloric acid	5	23	0	0	2	2	2	2	1
hydrochloric acid	20	23	0	0	1	1	1	2	0
hydrofluoric acid	50	23	0		0	0			0
hydrogen	100	23	2		2	2	2	2	2
hydrogen chloride	100	23	0		0	0		2	0
hydrogen peroxide	30	23	0	0	2	2	2	2	0
hydrogen sulfide	100	23	0	1			2		0
isopropanol	100	23	2	2	2	2	1	2	2
isopropanol	100	60	2		1	1		2	2
kerosene	100	23	2	2	2	2		1	2
ketones	100	23	1		0	0			2
lactic acid	10	23	2	1	2	2	2	2	2
lithium salts	10	23	0		2	2			2
lubricating oils	100	23	2		2	2	2	2	1
lubricating oils	100	100	2		2	2			
magnesium hydroxide	100	23	2		2			2	
magnesium salts	5	23	2	2	2	2	2	2	2
magnesium sulfate	10	23	1					2	
manganese salts	10	23	1		2	2	2		
mercury	100	23	2		2	2	2	2	2
methane	100	23	2	2	2	2	2	1	2
methanol	100	23	2	2	2	2	0	2	2
methyl amine	100	23	2		2	2	2		
methyl chloride	100	23	2	2	1	1		0	
methyl ethyl ketone	100	23	2	2	1	1	0	0	2
methyl formate	100	23	2		2	2			2
mineral oil	100	23	2	2	2	2		2	2
naphthalene	100	23	2		2	2			2
natural gas	100	23	2		2	2		1	2
nitric acid	5	23	0		2	2	2		0
nitric acid	20	23	0	0	0	0	0	2	0
nitro benzene	100	23	1	1	1	1	2	1	1
octane	100	23	2		2	2			2
octene	100	23	2		2	2			2
oxalic acid	10	23	1		2	2	2		0
ozone	100	23	0	0	0	0	2	1	0
pentanole	100	23			2	2	2		2
petroleum	100	23	2	2	2	2	1	2	2
petroleum	100	60	2		2	2	1	0	2
phenol	100	23	0	0	0	0	0	2	0
phenylethanol	100	23	1				0		
phtalic acid	100	23	1		2	2			2
potassium bromide	5	23	1		2	2	2	2	2

Chemical Agent	Concentration (%)	Temperature (°C)	PA	PPA	PBT	PET	PC	PP	POM
potassium chloride	5	23	2		2	2	2	2	2
potassium dichromate	10	23	1		1	1	2	2	2
potassium hydroxide	50	23	1		0	0	0	2	1
potassium nitrate	5	23	2		2	2	2	2	2
potassium permanganate	3	23	0	0	2	2	2	1	2
potassium sulfate	100	23	2					2	
propane	100	23	2	2	2	2	2	2	2
propionic acid	50	23	0		0	0	0		0
propionic acid	100	23	0		0	0	0	2	0
rainwater	100	23	2		2	2		2	2
refrigerator oil	100	23	2	2	2	2			2
silicone oil	100	23	2	2	2	2	2	2	2
sodium carbonate	5	23	2	2	2	2	2		
sodium chlorate	10	23	2	2	2	2	2	2	2
sodium hydrogencarbonate	15	23	2		2	2	2		2
sodium hydroxide	10	23	2	2	1	1		2	2
sodium hydroxide	10	90	0		0	0	0		1
sodium hypochlorite	20	23	0		1	1		2	0
sodium hypochlorite	20	60	0		0	0		1	0
sodium salt	5	23	2	2	2	2	2		2
steam	100	100	1		0	0			2
stearic acid	100	23	2		2	2		2	2
stearic acid	100	60						1	
styrene	100	23	2	2	2	2	0		2
sulfur	100	23	2	2	2	2	2		2
sulfur dioxide	100	23	1		2	2	1	2	0
sulfuric acid	5	23	0	1	2	2	2	2	1
sulfuric acid	60	23	0	0			2	2	
sulfuric acid	96	23	0	0	0	0	0	2	0
tetrahydrofuran	100	23	2		2	2	0	1	1
tetrahydronaphtaline	100	23					0	0	
toluene	100	23	2	2	2	2	0	1	2
trichloro ethane	100	23	2	1	0	0			0
trichloro ethylene	100	23	1	1	0	0	0	1	0
trichloro methane	100	23	1		0	0	0	1	0
turpentine oil	100	23	2		2	2	1		
urea	5	23	2	2	2	2		2	
urea	25	23	2	2	2	2	2	2	
uric acid	10	23	2	2	2	2	2		2
vinyl acetate	100	23						2	
water	100	23	2		2	2	2	2	2
water	100	60	2	2	1	1		2	2
xylene	100	100	2		0	0	0	0	2
zinc chloride	10	23	1	2	2	2	2	2	2
zinc chloride	10	60	0					2	
zinc chloride	50	23	0	1	1	1	2	2	2