



Chemical Resistance Comparison; EPE vs. EPP vs. EPS

CHEMICAL	EPE		EPP		EPS	
	+20°C	+60°C	+20°C	+60°C	+20°C	+60°C
1.4-dioxane	2	2	2	3	4	4
acetaldehyde	2	3	2	3	4	4
acetic acid (5%)	1	1	1	1	1	2
acetic acid (50%)	1	1	1	1	2	2
acetone	1	1	1	1	4	4
allyl alcohol	1	1	1	1	2	3
aluminum salts	1	1	1	1	2	2
amino acids	1	1	1	1	1	1
ammonia	1	1	1	1	2	3
ammonium carbonate	1	1	1	1	2	3
ammonium phosphate	1	1	1	1	2	2
ammonium sulphate	1	1	1	1	2	2
amyl chloride	3	4	3	4	4	4
aniline	2	2	2	2	4	4
benzene	2	3	2	3	4	4
benzine	2	2	2	2	4	4
benzyl alcohol	2	2	2	2	4	4
boric acid	1	1	1	1	1	2
bromine	4	4	4	4	4	4
butyric acid	2	3	3	3	4	4
calcium chloride	1	1	1	1	1	1

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KEY

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The 1st number refers to the condition at + 20°C (68°F)
The 2nd number refers to the condition at + 60°C (140°F)





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	+20°C	+60°C	+20°C	+60°C	+20°C	+60°C
calcium hydroxide saturated	1	1	1	1	2	2
calcium sulphate	1	1	1	1	2	2
carbon tetrachloride	3	3	3	3	4	4
chlorobenzene	4	4	4	4	4	4
chloroform	2	3	2	3	4	4
chlorine 10% in water	2	2	2	2	4	4
chromic acid (10%)	1	1	1	1	1	1
chromic acid (50%)	1	1	2	3	3	4
citric acid (10%)	1	1	1	1	2	2
cresol	3	4	2	3	4	4
cyclohexane	2	3	2	3	3	4
diethyl ketone	2	2	2	2	4	4
dimethylsulphoxide	1	1	1	1	2	2
ethanol (95%)	1	1	1	1	1	2
ethyl acetate	2	2	2	2	4	4
ethyl benzene	2	3	2	3	4	4
ethylene glycol	1	1	1	1	1	1
ethylene oxide	2	3	2	3	4	4
ferric chloride	1	1	1	1	1	1
fluoride	1	1	1	1	2	2
fluorine	2	4	3	4	4	4

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	+20°C	+60°C	+20°C	+60°C	+20°C	+60°C
formaldehyde (10%)	1	1	1	1	4	4
formaldehyde (40%)	1	2	1	2	4	4
glacial acetic acid	1	1	1	2	4	4
glycerol	1	1	1	1	1	1
heating oil	2	3	1	2	4	4
hexane	2	3	2	3	4	4
hydrochloric acid (5%)	1	1	1	1	1	1
hydrochloric acid (20%)	1	1	1	1	1	1
hydrochloric acid (35%)	1	1	1	2	3	3
hydrocyanic acid	1	1	1	1	2	2
hydrofluoric acid	2	4	2	4	4	4
hydrofluoric acid (4%)	1	1	1	1	3	3
hydrofluoric acid (48%)	1	1	1	2	4	4
hydrogen peroxide (3%)	1	1	1	1	1	2
hydrogen peroxide (30%)	1	1	1	2	1	2
isobutyl alcohol	1	1	1	1	2	2
isopropyl acetate	1	2	2	3	4	4
isopropyl alcohol	1	1	1	1	1	2
kerosene	2	2	2	2	4	4
lactic acid (10%)	1	1	1	1	2	2
lactic acid (90%)	1	1	1	1	2	2

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	+20°C	+60°C	+20°C	+60°C	+20°C	+60°C
lead acetate	1	1	1	1	1	1
metallic salts, dissolved	1	1	1	1	2	2
methanoic acid (100%)	1	1	1	1	3	3
methanol	1	1	1	1	3	4
methyl ethyl ketone	2	2	2	2	4	4
methyl propyl ketone	1	2	2	2	4	4
methylene chloride	2	3	3	3	4	4
mineral oil	1	1	1	1	1	1
n-amyl acetate	2	3	2	3	4	4
n-butyl alcohol	1	1	1	1	2	3
n-octane	1	1	1	1	4	4
nitric acid (10%)	1	1	1	1	2	4
nitric acid (50%)	2	2	3	3	4	4
nitric acid (70%)	2	4	4	4	4	4
oleic acid	2	2	2	3	2	2
oxalic acid	1	1	1	1	2	2
ozone	2	3	2	3	4	4
perchloric acid	2	3	2	3	2	3
perchloric ethylene	4	4	4	4	4	4
phenol	2	2	2	2	4	4
phosphoric acid (10%)	1	1	1	1	2	2

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phosphoric acid (85%)	1	1	1	1	2	2
phosphorus trichloride	2	2	2	3	4	4
potassium acetate	1	1	1	1	1	1
potassium bromide	1	1	1	1	1	1
potassium carbonate	1	1	1	1	1	1
potassium hydroxide (5%)	1	1	1	1	2	2
potassium hydroxide, concn.	1	1	1	1	2	2
potassium permanganate	1	1	1	1	3	3
propylene glycol	1	1	1	1	1	1
pyridine	2	3	3	3	4	4
salicylic acid, saturated	1	1	1	1	1	2
salt water, brine	1	1	1	1	2	2
silver acetate	1	1	1	1	2	2
silver nitrate	1	1	1	1	2	3
sodium carbonate	1	1	1	1	1	1
sodium chloride, saturated	1	1	1	1	1	1
sodium dichromate	1	1	1	1	1	1
sodium hydroxide (1%)	1	1	1	1	2	2
sodium hydroxide (50%)	1	1	1	1	2	2
sodium hypochlorite	1	1	1	1	2	2
sodium nitrate	1	1	1	1	1	1

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sodium sulphate	1	1	1	1	1	1
sucrose	1	1	1	1	1	1
sulphide	2	3	3	3	4	4
sulphuric acid (6%)	1	1	1	1	1	2
sulphuric acid (20%)	1	1	1	1	2	2
sulphuric acid (60%)	1	1	1	2	2	4
sulphuric acid (98%)	2	2	3	3	4	4
tannic acid	1	1	1	1	2	2
tetrahydrofuran	3	3	3	3	4	4
toluene	2	2	2	3	4	4
trichloroacetic acid	2	3	3	3	4	4
trichlorethane	3	4	3	4	4	4
turpentine oil	2	3	2	3	4	4
urea	1	1	1	1	2	2
xylene	3	3	3	4	4	4
zinc chloride	1	1	1	1	1	1

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