

Chemical Resistance Table - Coating Materials

 Chester Molecular LTD, Poland
 05-092 Łomianki ul. Krzywa 20B

1 - full resistance including immersing

 2 - short contact with a substance or
 its fumes is acceptable

3 - no resistance

Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal
Quartz	Protector A	Protector C Protector CK	Protector CF	Protector D	Epoxy SL	Protector E	

Alkalis							
ammonia solution 0-10%	1	1	1	1	1	1	1
ammonia solution 10-30%	2	2	2	2	2	2	1
calcium hydroxide	1	1	1	1	1	1	1
calcium	1	1	1	1	1	1	1
potassium hydroxide 10%	1	1	1	1	1	1	1
potassium hydroxide 20%	1	1	2	1	3	3	1
sodium hydroxide 10%	1	1	1	1	1	1	1
sodium hydroxide 40%	1	2	1	1	2	2	1
Alkohole							
butanol	1	2	1	1	2	2	1
cellulose	2	2	2	2	2	2	1
ethanol	2	2	2	2	3	3	1
ethylene glycol	1	1	1	1	1	1	1
glycerol	1	1	1	1	1	1	1
Hexanol	1	1	2	1	2	2	1
Iso-butanol	1	2	2	1	2	2	1
methanol	2	3	2	2	3	3	1
2-methoxyethanol	2	2	2	2	3	3	1
Methyl cellulose	2	2	2	2	2	2	1
propylene glycol	1	1	1	1	2	2	1
Amines and Amides							
aniline	2	2	2	2	2	2	1
Dibutylamine	3	3	3	3	3	3	3
Diethanolamine	1	1	1	1	2	2	1
Diethylamine	2	2	3	2	2	2	2
Diethyltriamine	3	3	3	3	3	3	2
Dimethylformamide	3	3	3	3	3	3	3
hydrazine	3	3	3	3	3	3	1
Methylamine 40% in water	2	1	2	2	3	3	1
Methylamine gas	1	2	2	1	2	2	1
pyridine	3	3	3	3	3	3	2
Triethylamine	3	3	3	3	3	3	2
Esters and Ethers							
amyl acetate	2	2	1	2	3	3	1
butyl acetate	2	2	1	2	3	3	1
Butyl ether	1	1	1	1	2	2	1
Dibutyl phthalate	1	1	1	1	2	2	1
Dibutyl sebacate	1	1	1	1	2	2	1
diethyl ether	1	2	1	1	2	2	1
Diocetyl adipate	1	1	1	1	2	2	1
Diocetyl phthalate	1	1	1	1	2	2	1
Diocetyl sebacate	1	1	1	1	2	2	1
ethyl acetate	2	2	2	2	2	2	1
methyl acetate	2	2	2	2	2	2	1
Tributyl phosphate	1	1	1	1	1	1	1
Gases							
butane	1	1	1	1	1	1	1

Chemical Resistance Table - Coating Materials

Chester Molecular LTD, Poland
05-092 Łomianki ul. Krzywa 20B

- 1 - full resistance including immersing
- 2 - short contact with a substance or its fumes is acceptable
- 3 - no resistance

Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal
Quartz	Protector A	Protector C Protector CK	Protector CF	Protector D	Epoxy SL	Protector E	

carbon dioxide	1	1	1	1	2	2	2
carbon monoxide	1	1	1	1	2	2	1
chlorine	1	2	1	1	2	2	2
hydrogen	1	1	1	1	2	2	1
hydrogen sulfide	1	1	1	1	2	2	1
methane	1	1	1	1	1	1	1
LPG	1	1	1	1	1	1	1
nitric oxide	1	1	1	1	1	1	1
ozone (water solution)	2	3	2	2	3	3	2
sulphur dioxide	1	1	1	1	1	1	1
sulphur trioxide	1	1	1	1	1	1	1
Halocarbons							
carbon tetrachloride	2	2	2	2	2	2	1
chlorobenzene	3	2	2	2	2	2	1
chloroform	3	3	3	3	3	3	2
Dichloroethylene	3	3	3	3	3	3	2
Dichloromethylene	3	3	3	3	3	3	3
Tetrachloroethene	2	2	2	2	2	2	1
1,1,1 trichloroethane	1	1	1	1	1	1	1
1,1,1 trichloroethylene	2	2	2	2	2	2	1
Trichlorofluoroethene	2	2	2	2	2	2	1
Ketones							
acetone	3	3	2	3	3	3	2
Formaldehyde 37%	1	2	2	1	2	2	1
Methyl amyl ketone	2	2	2	2	2	2	1
Methyl ethyl ketone (MEK)	3	3	2	3	3	3	3
Inorganic acids							
carbonic acid	1	1	1	1	2	2	1
chromic acid 10%	2	2	2	2	2	3	1
chromic acid 40%	3	3	3	3	3	3	2
Fluorosilic 10%	2	2	2	2	2	2	1
bromic acid 10%	1	1	2	1	2	2	1
bromic acid 40%	2	2	2	2	3	2	1
hydrochloric acid 10%	1	1	1	1	1	1	1
hydrochloric acid 36%	1	2	1	2	2	2	1
fluoric acid	3	3	3	3	3	3	1
Hydrofluorosilicic acid 30%	2	3	3	3	3	3	1
nitric acid 10%	2	2	2	2	2	2	1
nitric acid 30%	2	3	3	2	3	3	2
nitric acid 65%	2	3	3	3	3	3	3
nitrous acid 20%	1	1	1	1	1	1	1
Oleum	3	3	3	3	3	3	3
perchloric acid 60%	3	3	3	3	3	3	1
phosphoric acid 10%	2	2	2	2	2	2	1
phosphoric acid 30%	2	3	3	2	3	3	1
phosphoric acid 85%	3	3	3	3	3	3	2
sulphuric acid 10%	1	1	1	1	2	1	1
sulphuric acid 20%	1	2	2	1	2	2	1

Chemical Resistance Table - Coating Materials

Chester Molecular LTD, Poland
05-092 Łomianki ul. Krzywa 20B

- 1 - full resistance including immersing
- 2 - short contact with a substance or its fumes is acceptable
- 3 - no resistance

Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal
Quartz	Protector A	Protector C Protector CK	Protector CF	Protector D	Epoxy SL	Protector E	

sulphuric acid 50%	2	3	2	1	3	3	1
sulphuric acid 98%	3	3	3	3	3	3	1
sulphuric acid 100%	3	3	3	3	3	3	3
sulphurous acid 6%	1	1	1	1	1	1	1

Organic acids

acetic acid 0-10%	2	2	2	2	2	2	1
acetic acid 10-20%	2	3	2	2	3	3	2
acetic acid 20-30%	3	3	3	3	3	3	3
acrylic acid	3	3	3	3	3	3	2
Chlorosulfonic acid	2	2	2	2	2	2	2
citric acid	1	1	2	1	2	2	1
Cresylic acid	3	3	3	3	3	3	2
formic acid 20%	3	3	2	3	3	3	1
lactic acid 0-10%	2	2	2	2	2	2	1
lactic acid 10-85%	3	3	3	3	3	3	2
maleic acid	1	1	2	1	2	2	1
phenol 80%	3	3	3	3	3	3	2
salicylic acid	1	1	1	1	1	1	1
stearic acid (solid)	1	1	1	1	1	1	1
folic acid	1	1	1	1	1	1	1
gallic acid	1	2	1	1	2	2	1
tartaric acid	1	2	1	1	2	2	1

Drinks and consumables

Apple juice	1	1	1	1	1	1	1
beer	1	1	1	1	1	1	1
beet juice	1	1	1	1	1	1	1
Butter	1	1	1	1	1	1	1
sour cream	1	1	1	1	1	1	1
Cider	1	1	1	1	2	2	1
lemon juice	1	1	1	1	2	2	1
Spirits	2	2	2	2	2	2	1
glucose	1	1	1	1	1	1	1
Ketchup	1	1	1	1	1	1	1
margarine	1	1	1	1	1	1	1
mayonnaise	1	1	1	1	1	1	1
milk	1	1	1	1	1	1	1
molasses	1	1	1	1	1	1	1
Mustard	1	1	1	1	1	1	1
Salad oil	1	1	1	1	1	1	1
Syrups	1	1	1	1	1	1	1
tomato juice	1	1	1	1	1	1	1
vinegar	2	2	2	2	2	2	1
Whisky and wine	1	1	1	1	2	2	1

Oils

castor oil	1	1	1	1	1	1	1
coconut oil	1	1	1	1	1	1	1
cod liver oil	1	1	1	1	1	1	1
corn oil	1	1	1	1	1	1	1

Chemical Resistance Table - Coating Materials

Chester Molecular LTD, Poland
05-092 Łomianki ul. Krzywa 20B

1 - full resistance including immersing

2 - short contact with a substance or
its fumes is acceptable

3 - no resistance

Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal
Quartz	Protector A	Protector C Protector CK	Protector CF	Protector D	Epoxy SL	Protector E	

diesel oil	1	1	1	1	2	2	1
hydraulic oil	1	1	1	1	1	1	1
Lubricating oil	1	1	1	1	1	1	1
Mineral oil	1	1	1	1	1	1	1
water/oil mixture	1	1	1	1	1	1	1
silicone oil	1	1	1	1	1	1	1
soybean oil	1	1	1	1	1	1	1
transformer oil	1	1	1	1	1	1	1
Wood oil	1	1	1	1	1	1	1
Other							
Bleach	1	2	1	1	1	1	1
brake fluid	1	1	1	1	1	1	1
bromine water (saturated)	1	1	1	1	1	1	1
chlorine water (saturated)	1	2	2	1	2	2	1
methyl sulfoxide	3	3	3	3	3	3	2
Inc	1	1	1	1	1	1	1
Fertilizers	1	1	1	1	1	1	1
lubricants	1	1	1	1	1	1	1
hydrogen peroxide	2	2	2	2	2	2	1
Printing (water soluble)	1	1	1	1	1	1	1
Isothiasolin	1	1	1	1	1	1	1
1,3,5-trimethylbenzene	2	2	2	2	2	2	1
N-methylpyrrolidone	3	3	3	3	3	3	3
naphthalene	1	1	1	1	1	1	1
pyrene	3	3	3	3	3	3	2
Natural resins	1	1	1	1	1	1	1
Roof pitch	1	1	1	1	1	1	1
Latex emulsion	1	1	1	1	1	1	1
Sewer water	1	1	1	1	1	1	1
Skydrol	2	2	2	2	2	2	1
starch	1	1	1	1	1	1	1
Tar	1	1	1	1	1	1	1
Tetra-ethyl lead	1	1	1	1	1	1	1
Tetrahydrofuran	3	3	3	3	3	3	2
Urea	1	1	1	1	1	1	1
fresh water	1	1	1	1	1	1	1
sea water	1	1	1	1	1	1	1
distilled water	1	1	1	1	1	1	1
Salts							
Alum	1	1	1	1	1	1	1
aluminum chloride	1	1	1	1	1	1	1
aluminum sulfide	1	1	1	1	1	1	1
ammonium bicarbonate	1	1	1	1	1	1	1
Ammonium fluorosilicate	1	2	2	1	2	2	1
ammonium nitrate	1	1	1	1	1	1	1
ammonium phosphate	1	1	1	1	1	1	1
ammonium sulfate	1	1	1	1	1	1	1
barium carbonate	1	1	1	1	1	1	1

Chemical Resistance Table - Coating Materials

Chester Molecular LTD, Poland
05-092 Łomianki ul. Krzywa 20B

1 - full resistance including immersing

2 - short contact with a substance or
its fumes is acceptable

3 - no resistance

Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal
Quartz	Protector A	Protector C Protector CK	Protector CF	Protector D	Epoxy SL	Protector E	

barium chloride	1	1	1	1	1	1	1
barium sulfate	1	1	1	1	1	1	1
Barium sulfide	1	1	1	1	1	1	1
Brines	1	1	1	1	1	1	1
Bromine chloride	1	2	2	2	2	2	1
calcium carbonate	1	1	1	1	1	1	1
calcium chloride	1	1	1	1	1	1	1
Calcium fluoride	1	1	1	1	1	1	1
calcium hypochlorite	1	2	2	2	2	2	1
calcium sulphate	1	1	1	1	1	1	1
Chromium alum	1	1	2	2	2	2	1
cupric acetate	1	1	1	1	1	1	1
cupric chloride	1	1	1	1	1	1	1
cupric nitrate	1	1	1	1	1	1	1
cupric sulfate	1	1	1	1	1	1	1
ferric chloride	1	1	1	1	1	1	1
ferric nitrate	1	1	1	1	1	1	1
ferric sulfate	1	1	1	1	1	1	1
ferrous chloride	1	1	1	1	1	1	1
ferrous sulfate	1	1	1	1	1	1	1
Magnesium disulfate	1	1	1	1	1	1	1
magnesium carbonate	1	1	1	1	1	1	1
magnesium chloride	1	1	1	1	1	1	1
magnesium sulfate	1	1	1	1	1	1	1
mercurous chloride	1	1	1	1	1	1	1
mercurous cyanide	1	1	1	1	1	1	1
nickel chloride	1	1	1	1	1	1	1
nickel nitrate	1	1	1	1	1	1	1
nickel sulfate	1	1	1	1	1	1	1
Potassium disulfide	1	1	1	1	1	1	1
Potassium bromate	1	1	1	1	1	1	1
potassium carbonate	1	1	1	1	1	1	1
potassium chlorate	1	1	1	1	1	1	1
potassium chloride	1	1	1	1	1	1	1
potassium cyanide	1	1	1	1	1	1	1
Potassium bromate	1	1	1	1	1	1	1
Potassium diphosphate	1	1	1	1	1	1	1
potassium ferrocyanide	1	1	1	1	1	1	1
potassium iodide	1	1	1	1	1	1	1
potassium nitrate	1	1	1	1	1	1	1
potassium permanganate	1	1	1	1	1	1	1
potassium sulfate	1	1	1	1	1	1	1
potassium sulfite	1	1	1	1	1	1	1
Potassium sulfide	1	1	1	1	1	1	1
Qaternary ammonium salts	1	1	1	1	1	1	1
silver nitrate	1	1	1	1	1	1	1
sodium acetate	1	1	1	1	1	1	1
sodium aluminate	1	1	1	1	1	1	1

Chemical Resistance Table - Coating Materials

Chester Molecular LTD, Poland
05-092 Łomianki ul. Krzywa 20B

1 - full resistance including immersing

2 - short contact with a substance or its fumes is acceptable

3 - no resistance

	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal	Chester Metal
	Quartz	Protector A	Protector C Protector CK	Protector CF	Protector D	Epoxy SL	Protector E
sodium bicarbonate	1	1	1	1	1	1	1
sodium bisulfate	1	1	1	1	1	1	1
sodium bisulfide	1	1	1	1	1	1	1
sodium borate	1	1	1	1	1	1	1
Sodium bromate	1	1	1	1	1	1	1
sodium carbonate	1	1	1	1	1	1	1
sodium chlorate	1	1	1	1	1	1	1
sodium chloride	1	1	1	1	1	1	1
sodium chromate	1	1	1	1	1	1	1
sodium cyanide	1	1	1	1	1	1	1
sodium fluoride	1	1	1	1	1	1	1
Sodium fluorosilicate	1	1	1	1	1	1	1
sodium hypochlorite 5%	1	2	1	1	2	2	1
sodium hypochlorite 15%	1	2	2	2	2	2	1
sodium metaphosphate	1	1	1	1	1	1	1
Sodium Metasilicate	1	1	1	1	1	1	1
sodium nitrate	1	1	1	1	1	1	1
sodium phosphate (dibasic)	1	1	1	1	1	1	1
sodium phosphate (tribasic)	1	1	1	1	1	1	1
sodium silicate	1	1	1	1	1	1	1
sodium sulphate	1	1	1	1	1	1	1
sodium sulfite	1	1	1	1	1	1	1
stannic chloride	1	1	1	1	1	1	1
stannous chloride	1	1	1	1	1	1	1
zinc chloride	1	1	1	1	1	1	1
zinc hyposulphite	1	1	1	1	1	1	1
Zinc sulfate	1	1	1	1	1	1	1
hydrocarbons							
benzene	2	3	2	2	3	3	1
cyclohexane	1	1	1	1	2	2	1
Ethane	1	1	1	1	1	1	1
benzine	1	1	1	1	1	1	1
heptane	1	1	1	1	1	1	1
hexane	1	1	1	1	1	1	1
Iso-octane	1	1	1	1	1	1	1
kerosene	1	1	1	1	1	1	1
white spirit	1	1	1	1	1	1	1
paraffin	1	1	1	1	1	1	1
paraffin	1	1	1	1	1	1	1
Styrene	2	2	2	2	2	2	1
toluene	2	3	2	2	3	3	1
turpentine	1	1	1	1	2	2	1
mineral spirit	1	1	1	1	1	1	1
xylene	1	1	1	1	2	2	1