

ASAHI PDCPD Valve

Chemical Resistance Guide

This chemical resistance guide is the result of our own evaluation based on immersion tests, literature and accumulated field experience. The results listed are to be used as reference material only. No recommendation or guarantee of material selection is expressed or implied. Since chemical resistance is affected by actual operating conditions such as pressure, temperature, stress, period of time, vibration and other flow related parameters. It is suggested that trial installations or test specimens be evaluated under actual process conditions.

Chemicals	Formula	Concentration (%)	Max. Temperature (°F)	Recommendation
Acetic Acid	CH ₃ COOH	10	175	No Effect
Acetic Acid	CH ₃ COOH	75	175	No Effect
Acetone	CH ₃ COCH ₃	100	80	Severe Effect
Aluminum Chloride	AlCl ₃	100	175	No Effect
Ammonium Hydroxide	NH ₄ OH	10	175	No Effect
Aniline	C ₆ H ₅ NH ₂	100	80	No Effect
Benzene	C ₆ H ₆	100	80	Severe Effect
Brake Oil		100	175	No Effect
Calcium Hypochlorite	Ca(ClO) ₂	5	80	No Effect
Carbon Tetrachloride	CCl ₄	100	80	Severe Effect
Caster Oil		100	175	No Effect
Chlorine Water		1	175	Slight Effect
Copper Sulfate	CuSO ₄	16	175	No Effect
Electrical Oil		100	80	Severe Effect
Engine Oil		100	175	No Effect
Ethyl Alcohol	C ₂ H ₅ OH	100	175	No Effect
Ferric Chloride	FeCl ₃	33	175	No Effect
Ferrous Chloride	FeCl ₂	28	175	No Effect
Formic Acid	HCOOH	10	175	No Effect
Gasoline		100	80	Severe Effect
Hydrochloric Acid	HCl	10	175	No Effect
Hydrochloric Acid	HCl	36	175	Slight Effect
Hydrofluoric Acid	HF	10	80	No Effect
Hydrogen Peroxide	H ₂ O ₂	30	80	No Effect
Linseed Oil		100	175	No Effect
Methyl Alcohol	CH ₃ OH	100	175	No Effect
Motor Oil		100	175	No Effect
Nitric Acid	HNO ₃	5	175	No Effect
Nitric Acid	HNO ₃	40	80	Slight Effect
Nitric Acid	HNO ₃	40	175	Severe Effect
Phosphoric Acid	H ₃ PO ₄	80	175	No Effect
Potassium Chloride	KCl	21	175	No Effect
Radiator Oil		100	175	No Effect
Silicon Oil		100	175	No Effect
Sodium Carbonate	Na ₂ CO ₃	20	175	No Effect
Sodium Chloride	NaCl	20	175	No Effect
Sodium Hydroxide	NaOH	40	175	No Effect
Sulfuric Acid	H ₂ SO ₄	70	175	Severe Effect
Sulfuric Acid	H ₂ SO ₄	10	175	No Effect