

Chemical Resistance Chart



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Blank = No known Data available
 A = Excellent, little or no swelling or softening
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WARNING! Never use brass couplings with any ammonia based fluids.

	CPE	EPDM	Polyester	Neoprene	Nylon	Teflon	Santoprene	Urethane	Nitrile		CPE	EPDM	Polyester	Neoprene	Nylon	Teflon	Santoprene	Urethane	Nitrile
A										B									
Acetaldehyde	-	A	B	D	B	B	-	D	D	Butane	D	D	A	A	B	A	-	D	A
Acetic Acid 10%	A	C	C	A	A	A	A	D	C	Butanol	A	B	B	A	C	A	B	D	A
Acetic Acid 20%	A	A	C	A	B	A	A	D	C	Butanone	-	A	A	D	B	A	D	D	D
Acetic Acid 30%	A	A	C	A	C	A	A	D	D	Butyl Acetate	D	D	B	D	B	A	-	D	D
Acetic Acid 50%	C	C	C	D	C	A	C	D	D	C									
Acetic Acid Glacial	C	B	D	D	D	A	D	D	D	Calcium Chloride	A	A	A	A	B	A	-	A	A
Acetic Anhydride	A	B	C	B	D	A	D	D	D	Calcium Hydroxide	A	A	C	A	A	A	-	D	A
Acetone	A	A	C	D	A	A	A	D	D	Calcium Hypochlorite 6%	A	A	B	C	A	A	-	B	D
Acetylene	B	A	B	B	A	A	-	C	C	Calcium Bisulfide	C	A	B	C	B	A	-	C	B
Acrylonitrile	S	D	-	D	A	A	D	D	D	Calcium Nitrate	A	A	A	A	A	A	-	D	A
Adipic Acid	-	A	-	A	-	A	-	A	A	Carbon Dioxide	A	B	A	B	B	A	-	D	A
Alum	A	A	D	A	C	A	-	D	A	Carbon Monoxide	A	A	A	A	A	A	-	A	A
Aluminum Chloride Solut	A	A	B	A	D	A	-	B	A	Carbon Tetrachloride	D	D	D	C	D	A	D	D	D
Aluminium Sulfate Solut	A	A	B	A	A	A	A	B	A	Carbolic Acid	A	A	D	A	B	A	D	A	B
Ammonia, Gas	D	D	D	D	D	D	D	D	D	Castor Oil	A	B	B	A	B	A	-	B	A
Ammonia, Liquid	D	D	D	D	D	D	D	D	D	Chlorine Gas, Dry	D	D	D	C	D	A	D	D	D
Ammonium Carbonate	-	A	C	A	B	A	-	A	B	Chlorine Gas, Wet	D	D	D	D	D	B	D	D	D
Ammonium Chloride	A	A	A	A	D	A	-	B	B	Chloroacetic Acid	B	B	D	A	C	A	D	D	D
Ammonium Hydroxide Sol	C	A	D	A	A	A	-	D	D	Chlorobenzene	D	D	D	D	A	A	D	B	D
Ammonium Nitrate	A	A	C	A	B	A	-	A	A	Chloroform	D	D	D	D	D	A	D	D	D
Ammonium Sulfate Soluti	A	A	C	A	B	A	-	B	A	Chlorosulfonic Acid	-	D	D	D	D	A	-	D	D
Amyl Acetate	C	A	A	D	B	A	D	D	D	Chromic Acid, 10%	C	D	D	C	D	A	D	D	D
Amyl Alcohol	B	A	D	A	B	A	A	D	C	Chromic Acid 50%	-	D	D	D	D	A	D	D	D
Anhydrous Ammonia	D	D	D	D	D	D	D	D	D	Citric Acid Solution	A	A	B	A	B	A	A	A	A
Aniline	C	B	D	D	C	A	A	D	D	Coal Oil	A	D	A	B	A	A	D	C	A
Animal Oils & Fats	A	B	B	B	A	A	A	D	A	Copper Chloride Solution	A	A	A	A	D	A	-	B	A
Argon	C	A	A	D	A	A	-	A	A	Copper Sulfate Solution	A	A	B	A	B	A	-	C	A
ASTM Oil No. 1	A	D	A	A	A	A	D	A	A	Creosote	B	D	D	D	D	A	D	C	C
ASTM Oil No. 2	A	D	A	B	A	A	D	B	A	Cresol	D	D	D	D	D	A	D	D	D
ASTM Oil No. 3	A	D	B	B	A	A	D	A	A	Cyclohexane	A	D	A	D	B	A	D	B	B
ASTM Ref. Fuel A	B	D	A	B	A	A	D	B	A	Cyclohexanol	B	D	C	B	B	A	D	-	C
ASTM Ref. Fuel B	C	D	A	D	A	A	D	B	B	Cyclohexanone	C	C	B	D	B	A	D	D	D
ASTM Ref. Fuel C	C	D	B	D	A	A	D	C	B	D									
Asphalt	B	D	B	C	B	A	-	B	B	DDT Preparations	A	D	-	D	A	A	-	D	D
Aviation Gasoline	C	D	C	D	-	A	-	B	A	Diammonium Phosphate	-	A	C	A	B	A	-	D	A
B										Dibutyl Ether	B	C	-	D	-	A	A	D	D
Barium Chloride	A	A	C	A	B	A	-	A	A	Dibutyl Phthalate	C	B	B	D	B	A	A	D	D
Barium Hydroxide	A	A	B	A	B	A	-	D	A	Dichloro Benzene	D	D	D	D	A	A	D	D	D
Benzaldehyde	C	B	B	D	A	A	D	D	D	Dichloro Ethylene	-	D	D	D	C	A	D	C	D
Benzene	C	D	B	D	B	A	D	D	D	Diesel Fuel	A	D	B	D	A	A	D	C	A
Benzyl Alcohol	A	C	C	C	B	A	D	-	D	Diethyl Ether	C	D	B	D	B	A	A	A	D
Borax Solution	A	A	B	A	B	A	-	A	C	Diethyl Sebacate	C	B	A	D	-	A	A	D	D
Boric Acid	A	A	B	A	C	A	A	A	A	Diocetyl Phthalate	C	B	B	D	B	A	A	D	D
Bromine	D	D	D	D	D	B	-	D	D										



TAIPAN

Email: sales@taipan.com.au
 Fax: 07 5428 1311

CONTACT US 1300 654 782
www.taipan.com.au

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WARNING! Never use brass couplings with any ammonia based fluids.

	CPE	EPDM	Polyester	Neoprene	Nylon	Teflon	Santoprene	Urethane	Nitrile		CPE	EPDM	Polyester	Neoprene	Nylon	Teflon	Santoprene	Urethane	Nitrile
E										I									
Ethanol	A	A	C	A	A	A	A	D	A	Iodine Pentafluoride	D	D	-	D	-	A	-	D	D
Ethyl Acetate	C	B	C	D	A	A	A	D	D	Idoform	D	D	-	D	-	-	-	-	-
Ethyl Chloride	D	C	D	D	A	A	D	C	A	Isobutyl Alcohol	B	A	-	A	-	A	-	D	B
Ethylene Chlorohydrin	C	B	D	B	D	A	D	D	D	Isocetane	A	D	A	B	A	B	D	A	A
Ethylene Dichloride	C	D	D	D	C	A	D	D	D	Isopropyl Acetate	C	B	C	D	A	A	-	D	D
Ethylene Glycol@70	A	A	A	A	A	A	A	B	A	Isopropyl Alcohol	B	A	C	B	A	A	-	D	B
Ethylene Oxide	D	C	A	D	A	A	-	D	D	Isopropyl Ether	B	D	-	D	-	A	-	B	B
F										J									
Fatty Acid Esters	B	D	B	B	A	A	D	D	A	JP - 4 Fuel	B	D	A	D	C	A	D	C	A
Ferric Chloride	A	A	B	A	D	A	-	A	A	K									
Ferric Nitrate	A	A	C	A	A	A	-	A	A	Kerosene	B	D	A	C	A	A	D	B	B
Ferric Sulfate	A	A	C	A	A	A	-	B	A	Ketones	C	A	D	D	A	A	D	D	D
Ferrous Chloride	A	A	A	A	A	A	-	B	A	L									
Ferrous Sulfate	A	A	C	A	A	A	-	A	A	Lacquer Solvents	C	D	D	D	A	A	-	D	D
Fluorine	D	D	D	D	D	D	D	D	D	Lactic Acid	A	A	D	A	A	A	-	B	A
Formaldehyde	B	A	C	B	C	A	A	D	C	Lard		B	B	B	A	A	A	C	A
Formic Acid	D	A	D	A	D	A	A	D	D	Lead Acetate	B	A	-	B	A	A	-	D	B
Freon 12	C	C	A	C	A	A	D	C	C	Lead Nitrate	A	A	-	A	-	A	-	-	A
Freon 22	C	D	D	A	A	A	D	D	D	Lime Bleach	-	A	-	B	-	A	-	-	A
Freon 113	-	D	A	A	D	A	D	C	A	Linoleic Acid	C	D	-	D	-	A	-	-	B
Freon 502	-	A	-	A	A	A	D	-	B	Linseed Oil	A	C	B	B	A	A	-	B	A
Furfural	B	B	B	C	C	A	A	D	D	Liquified Petroleum Gas	C	D	B	C	A	A	-	C	A
Furfuryl Alcohol	B	B	B	D	A	A	A	D	D	Lubricating Oils (Petroleum)	A	D	A	B	A	A	-	B	A
G										M									
Gas, Coal	B	A	B	A	A	-	D	B	D	Magnesium Chloride (Aq)	A	A	B	A	A	A	-	A	A
Gas, High Octane	C	D	A	D	A	A	D	C	A	Magnesium Hydroxide-Aq	A	A	C	A	B	A	-	D	B
Gasoline	B	D	A	D	A	A	-	A	B	Magnesium Sulfate Aq	A	A	B	A	A	A	-	D	A
Glycerine	A	A	A	A	A	A	D	D	A	Maleic Acid	D	B	-	D	C	A	-	D	D
Greases	C	D	A	D	A	A	D	A	A	Maleic Anhydride	D	D	-	D	-	A	-	-	D
H										N									
Helium	A	A	A	A	A	A	A	A	A	Mercury Chloride Aq	A	A	-	B	-	A	-	-	A
Heptane	B	D	B	B	A	A	A	B	A	Methane	A	D	B	C	A	A	D	C	A
n-Hexane	B	D	A	A	B	A	A	B	A	Methanol	A	A	C	B	A	A	A	D	A
Hydrazine	B	A	D	B	D	A	-	D	B	Methyl Acetate	B	A	B	D	A	A	-	D	D
Hyd Fluid- petroleum	A	D	A	B	A	A	D	B	A	Methyl Acrylate	D	B	-	D	C	A	D	D	D
Hydrochloric Acid 10%	A	A	B	A	A	A	A	B	C	Methyl Bromide	D	D	D	D	A	A	D	D	B
Hydrochloric Acid 20%	A	A	C	B	B	A	A	C	C	Methyl Cellusolve	C	B	-	C	-	A	A	D	C
Hydrocyanic Acid	B	A	D	B	D	A	A	D	C	Methyl Chloride	D	C	D	D	A	A	D	D	D
Hydrofluoric Acid	A	C	D	B	C	A	D	D	D	Methyl Ethyl Ketone	C	A	B	D	A	A	D	D	D
Hydrogen Gas	A	A	A	A	A	A	-	A	A	Methyl Isobutyl Ketone	C	B	D	D	A	A	D	D	D
Hydrogen Peroxide20%	A	C	D	D	A	A	-	D	D	Methyl Methacrylate	C	D	-	D	C	A	C	D	D
Hydrogen Sulfide-wet	C	A	A	C	D	A	-	D	D	Methylene Chloride	C	C	D	D	D	A	D	D	D



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M										P									
Mineral Oil	B	D	A	B	A	A	D	A	B	Potassium Nitrate-Aq	A	A	B	A	A	A	-	A	A
Monochlorobenzene	D	D	C	D	B	A	D	D	D	Potassium Sulfate Aq	A	A	B	A	A	A	-	A	A
										Propane	B	D	B	B	A	A	-	C	A
N										R									
Naphtha	B	D	A	D	A	A	D	C	B	Propyl Alcohol	A	A	-	A	D	A	A	A	A
Naphthalene	D	D	C	D	A	A	D	B	D	Propyl Nitrate	-	B	-	D	-	A	-	D	D
Natural Gas	A	D	B	A	A	A	D	C	A	Propylene	D	D	-	D	-	A	-	D	D
Neon Gas	A	A	-	A	A	A	A	A	A	Propylene Glycol 70F	A	A	-	C	-	A	-	B	A
Nickel Acetate Aq	B	A	-	B	-	A	-	D	B	Pydraul 50E	B	B	A	D	A	A	-	D	D
Nickel Chloride Aq	A	A	D	A	D	A	-	D	A	Pydraul 312C	B	D	B	D	A	A	A	D	D
Nickel Sulfate Aq	A	A	D	A	D	A	-	C	A										
Nitric Acid 10%	B	B	D	B	D	A	A	D	D	R									
Nitric Acid conc.	C	D	D	D	D	A	D	D	D	Resorcinol	D	B	D	D	D	A	D	D	D
Nitric Acid-Red Fuming	D	D	D	D	D	A	D	D	D	S									
Nitro Benzene	C	A	D	D	D	A	C	D	D	SAE No.10 Oil	A	D	A	-	A	A	D	A	A
Nitroethane	C	B	-	C	-	A	A	D	D	Sea Water	A	A	A	A	A	A	A	D	A
Nitrogen	A	A	A	A	B	A	A	A	A	Silicate Esters	B	D	C	A	B	A	-	A	B
Nitrous Oxide	A	A	-	B	D	A	-	B	A	Silicone Grease	A	A	A	A	A	A	-	A	A
										Silicone Oil	A	A	B	A	B	A	-	A	A
O										S									
n-Octane	C	D	A	D	B	A	B	D	B	Silver Nitrate	A	A	-	A	A	A	-	A	B
Octyl Alcohol	B	C	-	B	-	A	-	D	B	Skydrol 500	A	A	B	D	A	A	A	D	D
Oleic Acid	B	D	C	C	A	A	-	B	A	Soap Solution	A	A	A	B	B	A	A	C	A
Oleum Spirit	C	D	B	D	A	A	-	C	B	Soda Ash	A	A	B	A	B	A	-	B	A
Oxalic Acid	C	A	D	B	A	A	A	D	B	Sodium Acetate-Aq	B	A	-	B	B	A	-	D	B
Oxygen	B	A	B	A	A	A	A	A	B	Sodium Chloride-Aq	A	A	A	A	A	A	A	A	A
Ozone	B	A	B	C	D	A	A	A	D	Sodium Hydroxide 50%	A	A	C	A	A	A	A	B	B
										Sodium Hypochlorite Aq	B	B	B	B	A	A	A	D	B
										Sodium Sulfide	A	A	B	A	A	A	-	A	A
P										T									
Paint Thinner	D	D	-	D	B	A	D	-	D	Sodium Nitrate	A	A	B	B	B	A	-	B	A
Palmitic Acid	A	B	A	B	D	A	A	A	A	Sodium Peroxide	B	A	B	B	D	A	-	D	B
Perchloric Acid	C	B	D	B	D	A	D	D	D	Stannic Chloride-Aq	A	A	B	C	D	A	-	B	A
Perchloroethylene	D	D	D	D	B	A	D	D	D	Steam - 212° F	D	A	D	D	D	A	A	D	D
Petroleum	A	D	A	B	B	A	A	B	A	Stearic Acid	B	B	B	B	A	A	A	A	B
Phenol	D	D	D	D	D	A	D	D	D	Styrene	D	D	D	D	A	A	-	D	D
Phosphate Esters 72°F	A	A	A	D	A	A	A	D	D	Sulfur Chloride	D	D	C	D	D	A	-	C	D
Phosphoric Acid 40%	D	A	D	A	A	A	A	D	D	Sulfur Dioxide	C	A	D	D	D	A	-	D	D
Picric Acid	C	C	D	C	C	A	D	D	D	Sulfuric Acid Diluted	B	A	A	A	D	A	A	D	B
Potassium Chloride Aq	A	A	B	A	A	A	-	A	A	Sulfuric Acid Concen	D	D	D	D	D	A	-	D	D
Potassium Cyanide	A	A	B	A	A	A	-	A	A	T									
Potassium Dichromate Aq	A	A	B	A	B	A	-	B	A	Tannic Acid	A	A	A	A	A	A	A	A	A
Potassium Hydroxide(Aq)50%	B	A	D	B	A	A	B	D	B	Tar Bituminous	B	D	B	C	B	A	-	B	B
										Tartaric Acid	A	C	B	B	A	A	A	A	A
										Tertiary Butyl Alcohol	B	B	-	B	-	A	-	D	B
										Tertiary Butyl Mercaptan	D	D	-	D	-	A	-	D	D

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T									
Tetrachloroethylene	D	D	-	D	C	A	-	D	D
Tetra Hydrofuran (THF)	C	D	C	D	A	A	D	D	D
Toluene	C	D	C	D	A	A	D	D	D
Transformer Oil	A	D	-	B	B	A	-	B	A
Transmission Fluid, type A	B	D	B	B	B	A	-	B	A
Tributyl Phosphate	-	D	C	D	B	A	-	D	D
Trichloroacetic Acid	D	B	D	D	D	A	-	D	D
Trichloroethane	D	D	D	D	B	A	D	D	D
Trichloroethylene	D	D	D	D	B	A	D	D	D
Trisodium Phosphate	A	A	A	A	A	A	-	B	A
Tung Oil	A	D	B	A	B	A	-	C	A
Turpentine	C	D	B	D	A	A	D	D	A
U & V									
Urea	A	A	B	A	A	A	-	B	A
Uric Acid	-	-	D	-	A	A	A	D	-
Vinegar	A	A	C	B	A	A	-	D	C
Vinyl Chloride	D	D	-	D	-	A	-	-	D
W									
Water 72° F	A	A	A	A	A	A	A	A	A
Water 140° F	A	A	B	A	A	A	A	D	A
Water 212° F	A	A	D	D	D	A	A	D	D
Water/Glycol Solutions 72° F	A	A	A	A	A	A	A	C	A
Water/Glycol Solutions 125° F	A	-	B	A	A	A	A	D	A
Water/Glycol Solutions 180° F	A	-	D	A	A	A	A	D	A
Water, Soda	A	A	A	-	A	A	A	-	A
White Oil	A	D	-	B	-	A	-	A	A
Wood Oil	A	D	B	B	B	A	-	C	A
X & Z									
Xylene	D	D	C	D	B	A	D	D	D
Zinc Chloride (Solution)	A	A	C	A	B	A	A	B	A



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