



AUSTRALIAN TECHNICAL RUBBER

PU
NR
SBR
IIR
EPM
NBR
CO

POLYURETHANE
NATURAL RUBBER
STYRENE BUTADIENE
BUTYLE
ETHYLENE PROPYLENE DIENE
NITRILE
HYDRIN

CR NEOPRENE
CSM HYPALON
T THIOKOL
SI SILICONE
FSI FLORO SILICONE
FPM VITON
ACM ACRYLIC

The following ratings are used to describe the general performance of engineering materials

A RECOMMENDED - LITTLE OR NO EFFECT
B MINOR OR MODERATE EFFECT
C MODERATE TO SEVERE EFFECT
X NOT RECOMMENDED

These ratings should be used only as a guideline to the performance of the products in these chemicals . In case of acids and alkalis , attack of the polymers may occur but not necessarily show a large volume change in the case of solvents.

It is therefore recommended that a comprehensive immersion tests be carried out. Also note conditions may vary, including temperature, concentration and contact time which may change the status of the table.

PLEASE CONTACT ATR FOR POLYMER RECOMMENDATIONS

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SA	FSI	FPM	ACM
Acetaldehyde	X	C	X	A	A	X	-	C	C	C	A	X	X	X
Acetamide	X	C	C	A	A	A	-	B	B	X	B	A	B	X
Glacial acetic acid	X	B	C	B	A	C	X	C	C	B	B	C	C	X
Acetic acid	C	B	B	B	A	B	B	A	A	B	A	B	B	X
Acetic Anhydride	X	B	B	B	B	C	X	A	A	B	C	X	X	X
Acetone	X	B	B	A	A	X	X	B	B	C	B	X	X	X
Actodhenone	X	C	X	A	A	X	X	X	X	X	-	X	X	X
Acetal Chloride	-	-	-	-	-	-	-	X	X	-	-	A	A	-
Acetylene	-	B	B	A	A	B	-	B	B	C	B	-	A	-
Acrylonitrile	-	X	C	X	X	X	-	C	C	X	X	X	X	-
Adipid Acid	-	-	-	-	-	A	-	-	-	-	-	A	-	-
Alkazene	B	-	-	-	X	-	-	X	-	-	-	B	B	-
Aluminium Acetate	-	A	B	A	A	B	B	B	A	X	X	X	-	X
Aluminium Chloride	-	A	A	A	A	A	A	A	A	X	B	A	A	A
Aluminium Fluoride	-	B	A	A	A	A	A	A	A	X	B	A	A	-
Aluminium Nitrate	-	A	A	A	A	A	A	A	A	B	-	-	-	-
Aluminium Phosphate	-	A	A	A	A	A	A	A	A	-	A	-	A	-
Aluminium Sulfate	-	A	B	A	A	A	-	A	A	X	A	A	A	X



AUSTRALIAN TECHNICAL RUBBER

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Ammonia Anhydrous	-	A	-	A	A	A	-	A	B	-	C	X	X	-
Ammonia Gas (cold)	-	A	A	A	A	A	-	A	A	A	A	A	-	-
Ammonia Gas (hot)	-	-	-	B	B	-	-	B	B	X	A	X	X	-
Ammonium Carbonate	-	A	-	A	A	X	B	A	-	-	-	-	-	-
Ammonium Chloride	-	A	A	A	A	A	A	A	A	A	A	B	-	X
Ammonium Hydroxide	A	X	X	A	A	X	B	A	A	X	-	-	B	A
Ammonium Nitrate	X	C	A	A	A	A	A	B	A	-	-	-	-	X
Ammonium Persulfate	X	A	X	A	A	X	-	A	A	-	-	-	-	-
Ammonium Phosphate	-	B	A	A	A	A	-	A	A	A	A	-	-	X
Ammonium Sulfate	-	A	B	A	A	A	-	A	A	X	-	-	-	X
Amyl Acetate	X	B	C	A	A	X	X	X	X	X	X	X	X	X
Amyl Alcohol	X	B	B	A	A	B	A	A	A	B	X	A	B	-
Amyl Borate	-	X	X	X	X	A	-	A	A	A	-	-	A	-
Amyl Cloronaphtalene	X	X	X	X	X	-	-	X	X	C	X	B	A	X
Amyl Naphtalene	X	X	X	X	X	X	-	X	X	C	X	A	A	B
Aniline	X	X	X	B	B	X	X	C	C	C	-	C	C	X
Aniline Dyes	X	B	B	B	B	X	-	B	B	B	-	B	B	X
Aniline Hydrochloride	X	B	C	B	B	B	-	X	X	B	X	B	B	X
Animal Fats	A	X	X	B	B	A	A	B	B	X	B	A	A	A
Ansul Ether	B	X	X	C	C	C	-	X	X	A	X	C	X	X
Aqua Regia	-	X	X	X	C	-	-	X	C	-	-	C	B	-
Arcchlor (S)	-	X	X	C	C	C	-	X	-	X	B	B	A	X
Arsenic Acid	C	B	A	A	A	A	A	A	A	A	A	A	A	C
Arsenic Trichloride	-	-	-	-	-	A	-	A	-	X	B	B	A	X
Ashphalt	B	X	X	X	X	B	A	C	C	A	X	B	A	B
Barium Chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	X
Barium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	-
Barium Sulfide	A	A	B	A	A	A	A	A	A	B	A	A	A	X
Beer	-	A	A	A	A	A	A	A	A	-	A	A	A	X
Beet Sugar Liquors	-	A	A	A	A	A	-	A	A	X	A	A	A	X
Benzene	X	X	X	X	X	X	X	X	X	C	X	A	A	X
Benzensulfonic Acid	-	-	-	-	-	-	-	A	A	-	-	B	A	-
Benzaldehyde	X	X	X	A	A	X	X	X	X	X	X	X	X	X
Benzyl Alcohol	-	-	-	B	B	X	X	A	B	-	-	B	A	-
Benzyl Benzote	-	-	-	B	B	-	-	-	-	-	-	A	A	-
Benzyl Chloride	-	-	-	-	-	X	-	X	-	-	-	A	A	-
Benzoic Acid	-	-	-	-	-	-	-	-	-	-	B	B	A	-
Blast Furnace Gas	-	X	X	-	-	X	-	X	-	-	A	B	A	-
Bleach Solution	-	X	X	A	A	-	-	C	A	-	B	B	A	-
Borax	A	B	B	A	A	B	-	A	A	-	B	B	A	B
Bordeaux Mixture	-	B	B	A	A	-	-	A	A	-	B	B	A	-
Boric Acid	A	A	A	A	A	A	A	A	A	X	A	A	A	X
Brine	-	-	-	A	A	A	-	A	A	-	-	-	-	-
Bromine Anhydrous	-	-	-	-	-	-	-	X	X	B	C	B	A	-
Bromine Trifluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bromine Water	-	-	-	-	-	-	-	B	A	B	-	B	A	-
Bromobenzene	X	X	X	X	X	X	X	X	X	C	X	A	A	X
Bunker Oil	B	-	-	-	-	-	-	-	-	A	B	A	A	A



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CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Butadiene	X	X	X	C	C	X	X	B	B	-	-	B	B	-
Butane	A	X	X	X	X	A	A	A	A	A	-	A	A	A
Butter	A	X	X	B	B	A	A	B	B	X	A	A	A	A
Butyl Acetate	-	-	-	B	B	-	X	X	X	C	X	X	X	X
Butyl Acetyl Ricinoleate	-	-	-	A	A	-	-	B	B	-	-	B	A	-
Butyl Acrylate	-	-	X	X	X	-	-	-	-	B	-	-	X	-
Butyl Alcohol	X	A	A	B	B	A	-	A	A	B	B	A	A	X
Butyl Amine	X	X	X	X	X	C	-	X	X	X	B	X	X	X
Butyl Benzoate	-	-	-	A	A	-	-	X	X	-	-	A	A	-
Butyl Carbitol	-	-	-	A	A	A	-	B	B	-	-	-	A	-
Butyl Cellosolve	-	-	-	A	A	C	-	B	B	-	-	X	X	-
Butyl Oleate	-	X	X	B	B	-	-	X	X	-	-	B	A	-
Butyl Stearate	A	X	X	B	B	B	-	-	-	A	-	B	A	-
Butylene	-	X	X	X	X	B	-	C	C	B	-	B	A	-
Butyraldehyde	-	C	C	B	B	C	-	C	C	B	C	X	X	X
Calcium Acetate	-	A	-	A	A	B	-	B	B	-	-	X	X	-
Calcium Bisulfite	A	X	X	X	X	A	-	A	A	X	A	A	A	-
Calcium Chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium Hydroxide	A	A	A	A	A	A	A	A	A	X	A	A	A	X
Calcium Hypochlorite	-	X	X	A	A	C	B	C	A	-	B	A	A	-
Calcium Nitrate	A	A	A	A	A	A	A	A	A	A	B	A	A	A
Calcium Sulphide	A	B	B	A	A	B	B	A	A	X	B	A	A	X
Cane Sugar Liquors	X	A	A	A	A	A	A	A	A	X	A	A	A	X
Carbamate	X	X	X	B	B	C	-	B	B	B	-	A	A	X
Carbitol	X	B	B	B	B	B	-	B	B	B	B	B	B	X
Carbolic Acid	-	X	X	B	B	X	-	C	C	X	X	A	A	-
Carbon Bisulfide	-	-	-	X	X	C	X	X	X	C	-	A	A	-
Carbon Dioxide	A	B	B	B	B	A	A	B	A	A	A	A	A	B
Carbon Acid	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Carbon Monoxide	A	B	B	A	A	A	A	A	A	X	A	B	A	-
Carbon Tetrachloride	C	X	X	X	X	C	B	X	X	C	X	A	A	-
Castor Oil	A	A	A	B	B	A	A	A	A	C	A	A	A	A
Cellosolve	-	X	X	B	B	-	-	-	B	B	-	-	C	-
Cellosolve Acetate	X	X	X	B	B	X	-	-	-	B	-	X	X	-
Chlorine (Dry)	-	X	X	-	-	-	B	C	B	C	-	A	A	-
Chlorine (Wet)	X	X	X	C	C	-	B	X	C	C	-	B	A	X
Chlorine Dioxide	-	-	-	C	C	X	-	X	C	-	-	B	A	-
Chlorine Trifluoride	X	X	X	X	X	X	X	X	X	X	X	B	X	-
Chloroacetone	-	B	-	B	A	X	-	B	B	-	-	X	X	-
Chloroacetic Acid	-	-	-	B	B	-	-	-	-	-	-	-	-	-
Chlorobenzene	C	X	X	X	X	X	X	X	X	X	X	B	A	X
Chlorobromomethane	-	X	X	B	B	-	-	X	X	-	X	B	A	-
Chlorobutadiene	-	X	X	X	X	X	-	X	-	-	-	B	A	-
Chlorododecane	-	X	X	X	X	X	-	X	-	-	-	A	A	-
Chloroform	-	X	X	X	X	X	-	X	X	-	X	B	A	-
O-Chloronaphthalene	-	X	X	X	X	X	-	X	-	-	X	B	A	-
1-Chloro 1-Nitro Ethane	X	X	X	X	X	X	-	X	X	X	X	-	C	X
Chlorosulfonic Acid	X	X	X	X	X	X	-	X	X	X	-	-	C	X
Chlorotoluene	X	X	X	X	X	X	-	X	X	-	-	B	A	-
Chrome Plating Solutions	X	X	X	X	X	X	-	X	C	X	B	B	A	-



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CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Chromic Acid	X	X	X	C	C	X	-	X	B	-	C	C	A	-
Citric Acid	A	A	A	A	A	A	A	A	A	X	A	A	A	-
Cobalt Chloride	X	A	A	A	A	A	-	A	-	B	A	A	-	X
Cocoonut Oil	A	X	X	A	A	A	-	B	B	-	A	A	A	A
Cod Liver Oil	A	X	X	A	A	A	-	B	B	-	B	A	A	A
Coke Oven Gas	-	U	X	-	-	B	-	-	-	-	B	B	A	-
Copper Acetate	-	-	-	A	A	A	-	B	B	-	-	-	-	-
Copper Chloride	A	A	A	A	A	A	-	A	A	-	A	A	A	A
Copper Cyanide	A	A	A	A	A	A	-	A	A	-	A	A	A	A
Copper Sulphate	A	B	B	A	A	A	-	A	A	X	A	A	A	X
Corn Oil	A	X	X	B	C	A	A	B	B	X	A	A	A	A
Cottonseed Oil	A	X	X	C	A	A	A	B	B	X	A	A	A	A
Creosote	B	X	X	X	X	B	X	C	C	C	X	A	A	A
Cresol	X	X	X	X	X	C	-	C	C	-	-	B	A	-
Cresylic Acid	X	X	X	X	X	C	-	C	C	-	-	B	A	-
Cumene	-	-	-	-	-	-	-	X	X	B	-	B	A	-
Cyclohexane	B	X	X	X	X	A	-	X	X	A	X	A	A	B
Cyclohexanol	-	B	X	X	X	B	-	A	A	B	-	A	A	-
Cyclohexanone	-	-	-	B	B	X	X	X	X	B	-	X	X	-
P-Cymene	-	-	-	-	-	-	-	X	X	B	-	B	A	-
Decalin	-	X	X	-	-	-	-	X	X	B	-	A	A	-
Decane	B	X	X	-	-	B	-	X	X	-	B	A	A	A
Denatured Alcohol	C	A	A	A	A	A	A	A	A	A	A	A	A	X
Detergent Solutions	X	B	B	A	A	A	A	A	A	-	A	A	A	X
Developing Fluids	-	A	B	B	B	A	-	A	A	A	A	A	A	-
Diacetone	B	-	-	A	A	-	-	-	-	-	-	X	X	-
Diacetone Alcohol	B	X	X	A	A	X	X	A	A	-	A	-	-	-
Dibenzyl Ether	B	X	X	B	B	X	X	B	-	B	-	-	-	-
Dibenzyl Sebacate	B	-	-	B	B	-	-	X	-	B	C	C	B	-
Dibutyl Amine	-	X	X	X	X	X	-	X	X	-	C	X	X	-
Dibutyl Ether	B	X	X	C	C	C	-	C	C	A	X	C	C	C
Dibutyl Phthalate	C	C	X	B	A	X	B	X	X	A	B	B	B	-
Dibutyl Sebacate	X	X	X	B	B	X	-	X	X	B	B	B	B	X
O-Dichlorobenzene	X	X	X	X	X	X	-	X	X	A	X	B	A	-
Dichloro-Isopropyl Ether	B	X	X	C	C	X	-	X	X	A	X	C	C	B
Dicyclohexylamine	-	X	X	-	-	C	-	-	-	C	-	-	-	-
Diesel Oil	B	X	X	X	X	A	A	B	B	A	X	A	A	A
Diethylamine	C	B	B	B	B	X	-	C	C	B	B	X	X	X
Diethyl Benzene	X	X	X	X	X	X	-	X	X	B	X	A	A	-
Diethyl Ether	A	X	X	X	X	X	-	C	C	A	X	C	X	C
Diethylene Glycol	X	A	A	A	A	A	A	A	A	X	B	A	A	X
Diethyl Sebacate	-	-	-	B	B	X	-	X	X	B	B	B	B	-
Diisobutylene	-	-	-	-	-	B	-	C	C	A	X	C	A	-
Diisopropyl Benzene	-	X	X	X	X	X	-	X	X	B	-	B	A	-
Diisopropyl Ketone	-	-	-	A	A	X	-	X	X	B	-	X	X	-
Dimethyl Aniline	-	X	X	X	B	-	-	X	-	-	-	X	X	-
Dimethyl Formamide	-	-	-	-	-	B	-	C	C	-	B	-	X	-
Dimethyl Phthalate	-	X	X	B	B	X	-	X	X	B	-	B	B	-
Dinitrotoluene	-	X	X	X	X	X	-	X	X	-	-	-	C	-
Diocetyl Phthalate	-	-	-	B	B	-	B	X	X	B	C	B	B	-



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CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Diocetyl Sebacate	B	X	X	B	B	X	C	X	X	C	C	C	B	X
Dioxane	-	-	-	B	B	-	-	-	-	-	-	C	-	-
Doixalane	-	X	X	C	B	X	-	-	-	-	-	-	-	-
Dipentene	-	-	-	-	-	B	-	-	-	A	-	C	A	-
Diphenyl	-	-	-	-	-	-	-	-	-	B	-	B	A	-
Dipgenyl Oxides	-	-	-	-	A	-	-	-	-	-	C	B	A	-
Dry Cleaning Fluids	-	X	X	X	X	C	-	X	X	-	-	B	A	-
Epichlorohydrin	-	X	X	B	B	-	-	-	-	-	-	X	X	-
Ethane	B	X	X	X	X	A	-	B	B	A	X	A	A	A
Ethanolamine	C	B	B	B	B	B	B	B	B	B	B	X	X	X
Ethyl Acetate	X	X	X	B	B	X	X	C	C	B	B	X	X	-
Ethyl Acetoacetate	-	C	C	B	B	X	-	C	-	B	B	X	X	-
Ethyl Acrylate	-	-	-	B	B	-	X	-	-	B	B	X	X	-
Ethyl Alcohol	B	A	A	A	A	B	A	A	A	A	A	A	A	X
Ethyl Benzene	X	X	X	X	X	X	X	X	X	C	-	A	A	-
Ethyl Benzoate	-	-	-	B	B	-	-	-	-	B	-	A	A	-
Ethyl Cellosolve	-	-	-	B	B	-	-	-	-	B	-	X	X	-
Ethyl Cellulose	B	B	B	B	B	-	-	B	B	X	C	X	X	X
Ethyl Chlorine	B	B	B	A	A	A	B	B	C	X	X	A	A	C
Ethyl Chlorocarbonate	-	X	X	-	-	-	-	C	C	-	-	B	A	-
Ethyl Chloroformate	-	X	-	-	-	-	-	C	C	-	-	B	A	-
Ethyl Ether	B	-	-	C	C	C	B	X	X	A	-	C	X	X
Ethyl Formate	-	X	X	B	B	X	X	B	B	-	-	A	A	-
Ethyl Mercaptan	-	X	X	X	X	X	X	-	-	X	-	-	A	-
Ethyl Oxylate	A	A	A	A	A	X	X	C	-	A	-	-	A	-
Ethyl Pentochlorobenzene	C	X	X	X	X	C	C	X	X	B	-	B	A	-
Ethyl Silicate	-	B	B	A	A	A	A	A	A	-	-	A	A	-
Ethylene	-	-	-	-	-	A	-	-	-	-	-	A	A	-
Ethylene Chloride	-	-	-	C	C	-	-	-	-	-	-	C	A	-
Ethylene Chlorohydrin	-	B	B	-	-	X	-	B	B	B	C	B	A	-
Ethylene Diamine	-	B	B	A	A	A	A	A	A	-	A	X	X	-
Ethylene Dichloride	X	X	X	C	C	X	X	X	X	X	C	C	A	-
Ethylene Glycol	B	A	A	A	A	A	A	A	A	C	A	A	A	X
Ethylene Oxide	-	-	-	C	C	X	-	X	X	-	C	X	X	-
Ethylene Trichloride	-	-	-	C	C	X	-	X	X	-	C	C	A	-
Fatty Acids	-	C	C	X	X	B	-	B	B	X	C	-	A	-
Ferric Chloride	A	A	A	A	A	A	A	A	A	-	A	-	A	-
Ferric Nitrate	-	A	A	A	A	A	A	A	A	A	C	A	A	A
Ferric Sulphate	-	A	A	A	A	A	A	A	A	A	B	A	A	A
Fish Oil	-	-	-	-	-	A	-	-	-	-	A	A	A	-
Fluoroboric Acid	-	A	A	A	A	A	-	A	A	-	-	-	-	-
Fluorine (Liquid)	-	-	-	C	C	-	-	-	-	X	X	-	B	-
Fluorobenzene	-	X	X	X	X	X	-	X	X	-	X	B	A	-
Fluorocarbon Oils	-	-	-	A	A	-	-	-	-	-	-	-	-	-
Fluorinated Cyclic Ethers	-	-	-	A	A	-	-	-	-	-	-	-	-	-
Fluorosilic Acid	-	A	-	-	-	A	-	A	A	-	-	-	-	-
Formaldehyde	X	-	-	A	A	B	B	A	A	-	-	-	A	-
Formic Acid	X	A	A	A	A	B	B	A	A	-	B	C	C	-



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CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Freon 11	X	X	X	X	X	A	-	B	A	A	X	B	A	-
Freon 12	A	B	A	B	B	A	A	A	A	A	X	C	B	-
Freon 13	-	A	A	A	A	A	A	A	A	A	-	-	A	-
Freon 21	-	X	-	X	X	X	B	B	X	X	X	-	X	-
Freon 22	X	A	A	A	A	X	A	A	A	A	X	X	X	-
Freon 31	-	B	B	A	A	X	-	A	B	B	-	-	X	-
Freon 32	-	A	A	A	A	A	-	A	A	A	-	-	C	-
Freon 112	-	X	-	X	X	B	-	B	B	A	-	-	A	-
Freon 113	B	C	B	X	X	A	A	A	A	A	X	X	B	-
Freon 114	A	A	A	A	A	A	A	A	A	A	X	B	B	-
Freon 115	-	A	A	A	A	A	-	A	A	A	-	-	B	-
Freon 142b	-	A	A	A	A	A	-	A	A	A	-	-	X	-
Freon 152a	-	A	A	A	A	A	-	A	C	A	-	-	X	-
Freon 218	-	A	A	A	A	A	-	A	A	A	-	-	A	-
Freon C 316	-	A	A	A	A	A	-	A	A	-	-	-	-	-
Freon C 318	-	A	A	A	A	A	-	A	A	A	-	-	A	-
Freon 13 B 1	A	A	A	A	A	A	-	A	A	A	X	-	A	-
Freon 114 B 2	-	X	C	X	X	B	-	A	A	A	-	-	B	-
Freon 502	-	A	A	-	-	B	-	A	-	-	-	-	B	-
Freon TF	A	C	B	X	X	A	A	A	A	A	X	-	A	-
Freon T-wd 602	A	C	B	A	B	B	-	B	B	A	X	-	A	-
Freon TMC	B	B	C	B	B	B	-	B	B	A	C	-	A	-
Freon T-P35	A	A	A	A	A	A	-	A	A	A	A	-	A	-
Freon TA	A	A	A	A	A	A	-	A	A	A	A	-	C	-
Freon TC	A	X	B	A	B	A	-	A	A	A	X	-	A	-
Freon MF	C	X	B	X	-	A	-	C	X	A	-	-	-	-
Freon BF	-	X	X	X	-	B	-	B	B	A	-	-	-	-
Fuel Oil	B	X	X	X	X	A	A	B	B	A	X	A	A	A
Fumaric Acid	-	A	A	X	-	A	-	B	B	-	B	A	A	X
Furan, Furfuran	-	X	X	C	C	X	-	X	X	B	-	-	-	-
Fufural	-	C	C	B	B	X	X	B	B	C	-	-	X	-
Gallic Acid	X	A	B	B	B	B	-	B	B	-	-	A	A	X
Gasoline	A	X	X	X	X	A	A	B	B	A	X	A	A	-
Gelatine	A	A	A	A	A	A	A	A	A	X	A	A	A	X
Glaubers Salt	-	-	X	B	B	-	-	-	-	X	-	A	A	X
Glucose	A	A	A	A	A	A	A	A	A	X	A	A	A	-
Glue	A	A	A	A	A	A	A	A	A	X	A	A	A	-
Glycerine	A	A	A	A	A	A	A	A	A	B	A	A	A	X
Glycols	B	A	A	A	A	A	A	A	A	A	A	A	A	X
Halowax Oil	-	X	X	X	X	X	-	X	X	A	X	A	A	-
N-Hexaldehyde	B	X	X	B	A	X	-	A	-	-	B	-	-	-
Hexane	B	X	X	X	X	A	A	B	B	A	X	A	A	A
Hexyl Alcohol	X	A	A	C	C	A	-	B	B	A	B	A	A	X
Hydrazine	X	-	-	A	A	B	-	B	B	-	C	-	-	-
Hydraulic Oil (Petroleum)	A	X	X	X	X	A	A	B	B	A	C	A	A	A
Hydrobromic Acid	X	A	C	A	A	X	-	A	A	-	X	C	A	X
Hydrochloric Acid	X	X	X	C	C	X	X	X	C	-	X	X	A	X
(Hot) 37%														
(Cold) 37%	X	B	B	A	A	B	X	B	A	X	B	B	A	X



AUSTRALIAN TECHNICAL RUBBER

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Hydrocyanic Acid	-	B	B	A	A	B	-	B	A	X	-	B	A	X
Hydrofluoric Acid (Conc.) Hot (Conc.) Cold	X	X	X	X	X	X	-	X	C	X	X	X	B	X
Hydrofluoric Acid (Anhydrous)	-	X	X	B	B	-	-	-	A	-	X	-	-	-
Hydrofluorosilic Acid	-	A	B	A	A	B	-	B	A	X	X	-	A	-
Hydrogen Gas	A	B	B	A	A	A	-	A	A	C	C	C	A	B
Hydrogen Peroxide (90%).	-	X	X	C	C	X	-	-	C	X	A	B	B	-
Hydrogen Sulphide Wet Cold Wet Hot	-	X	X	A	A	X	B	A	B	A	C	C	X	X
Hydroquinone	-	X	X	A	A	X	B	B	C	A	C	C	X	X
Hypochlorous Acid	-	B	B	-	-	C	-	-	-	C	-	B	X	-
Iodine Pentafluoride	-	B	B	B	B	X	B	-	-	-	-	-	A	-
Iodoform	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Isobutyl Alcohol	X	-	-	A	A	-	-	-	-	-	-	-	-	-
Isooctane	X	A	B	A	A	B	-	A	A	-	A	B	A	X
Isopropyl Acetate	B	X	X	X	X	A	A	B	B	A	X	A	A	A
Isopropyl Alcohol	A	-	-	A	A	X	-	X	X	-	-	-	X	X
Isopropyl Chloride	-	A	B	A	A	B	A	A	A	A	A	B	A	X
Isopropyl Ether	-	X	X	X	X	X	-	-	-	X	-	B	A	-
Kerosene	B	X	X	X	X	B	-	B	B	A	-	-	X	C
Lacquers	B	X	X	X	X	A	A	C	C	B	X	A	A	A
Lacquer Solvents	X	X	X	X	X	X	X	X	X	A	X	X	X	X
Lactic Acid	X	X	X	X	X	X	X	X	X	A	X	X	X	X
Lard	-	A	A	A	A	A	-	A	A	X	A	A	A	-
Lavender Oil	A	X	X	X	X	A	A	C	C	X	B	A	A	A
Lead Acetate	-	X	X	X	X	B	-	C	-	B	-	B	A	B
Lead Nitrate	-	A	-	A	A	B	B	B	-	X	X	-	-	-
Lead Sulphamate	-	A	A	A	A	A	-	A	A	-	B	A	-	-
Lime Bleach	-	B	B	A	A	B	-	A	A	X	B	A	A	X
Lime Sulphur	-	A	A	A	A	A	-	B	B	X	B	A	A	X
Lindol	-	X	X	A	A	U	-	A	A	X	A	A	A	X
Linoleic Acid	-	-	-	A	A	-	-	C	C	-	C	C	B	-
Linseed Oil	-	-	-	X	X	B	-	X	-	-	B	-	B	-
Liquidified Petroleum Gas	B	X	X	B	B	A	-	B	B	A	-	A	A	A
Lubricating Oils (Petroleum)	A	X	X	X	X	A	A	B	B	A	C	B	A	C
Lye	B	X	X	X	X	A	A	B	B	C	X	A	A	A
Magnesium Chloride	B	B	B	A	A	B	-	B	A	C	B	A	B	X
Magnesium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	-
Magnesium Sulphate	A	B	B	A	A	B	A	A	A	C	-	-	A	X
Maleic Acid	-	B	B	C	C	-	-	-	-	B	-	-	A	-
Maleic Anhydride	-	B	B	C	C	-	-	-	-	-	-	-	A	-
Malic Acid	-	B	B	C	C	-	-	-	-	-	-	-	A	-
Mercuric Chloride	-	-	-	X	X	A	-	B	B	-	B	A	A	X
Mercury	-	A	A	A	A	A	A	A	A	-	-	-	A	-
	A	A	A	A	A	A	A	A	A	-	-	-	A	-



AUSTRALIAN TECHNICAL RUBBER

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Mesityl Oxide	-	X	X	B	B	X	-	X	X	B	X	X	X	-
Methane	B	X	X	X	X	A	A	B	B	A	X	B	A	A
Methyl Acetate	-	X	X	B	B	X	X	B	-	-	-	X	X	-
Methyl Acrylate	-	X	X	B	B	X	-	B	-	-	-	X	X	X
Methylacrylic Acid	-	X	X	B	B	-	-	B	-	-	-	X	B	X
Methyl Alcohol	X	A	A	A	A	A	B	A	A	B	A	A	C	X
Methyl Bromide	-	-	X	-	-	B	-	X	X	-	-	A	A	-
Methyl Butyl Ketone	-	X	X	A	A	X	-	X	X	A	B	X	X	-
Methyl Cellosolve	-	X	X	B	B	-	-	B	B	-	-	-	X	-
Methyl Chloride	-	X	X	C	C	X	-	X	X	-	X	B	A	X
Methyl Cyclopentane	-	X	X	X	X	-	-	C	-	B	-	B	A	-
Methylene Chloride	X	X	X	X	B	X	-	X	X	-	-	B	B	-
Methyl Ethyl Ketone	X	X	X	A	A	X	X	X	X	A	-	X	X	X
Methyl Formate	-	X	X	B	B	X	X	B	B	B	B	-	-	-
Methyl Isobutyl Ketone	-	X	X	C	B	X	X	X	X	B	C	X	X	X
Methyl Methacrylate	-	X	X	X	X	X	X	X	-	B	C	X	X	X
Methyl Oleate	-	X	X	B	B	X	-	X	-	-	-	B	A	-
Methyl Salicylate	-	-	-	B	B	-	-	X	-	-	-	-	-	-
Milk	X	A	A	A	A	A	-	A	A	B	A	A	A	X
Mineral Oil	A	X	X	X	X	A	A	B	B	B	B	A	A	A
Monochlorobenzene	-	X	X	X	X	X	X	X	X	B	X	B	A	-
Monomethyl Aniline	-	X	X	-	-	X	-	X	X	-	-	-	B	-
Monoethanolamine	-	B	B	B	B	X	-	X	X	-	B	X	X	-
Monomethylrther	-	B	B	A	A	A	-	A	-	B	-	-	-	-
Monovinyl Acetylene	-	B	B	A	A	A	-	B	B	C	B	-	A	-
Mustard Gas	-	A	-	A	A	-	-	A	A	-	A	-	-	-
Naphtha	C	X	X	X	X	C	A	C	X	B	X	B	A	B
Naphthalene	B	X	X	X	X	X	-	X	X	B	X	A	A	-
Naphthenic Acid	-	X	X	X	X	B	-	-	-	B	-	A	A	-
Natural Gas	B	C	C	X	X	A	A	A	A	B	A	C	A	B
Nickel Acetate	-	A	-	A	A	B	-	B	-	-	-	X	X	-
Nickel Chloride	-	A	A	A	A	A	-	A	A	A	A	A	A	-
Nickel Sulphate	A	B	B	A	A	A	-	A	A	-	A	A	A	X
Nitric Acid Conc.	X	X	X	C	C	X	X	C	B	X	X	X	A	X
Nitric Acid Dilute	C	X	X	B	B	X	X	A	A	X	B	B	A	X
Nitric Acid Red Fuming	X	X	X	X	X	X	X	X	X	X	X	X	C	X
Nitrobenzene	X	X	X	X	B	X	X	X	X	X	X	X	B	X
Nitrobenzine	-	-	-	C	C	-	-	X	X	-	-	A	A	-
Nitroethane	-	B	B	B	B	X	-	C	C	-	X	X	X	X
Nitromethane	-	B	B	B	B	X	-	C	C	-	X	X	X	X
Nitrogen	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nitrogen tetroxide	-	X	X	C	C	X	-	X	X	-	C	X	X	-
Octadecane	A	X	X	X	X	A	-	B	B	A	X	A	A	B
N-Octane	-	X	X	X	X	-	-	-	-	B	X	B	A	-
Octyl Alcohol	X	B	B	A	A	B	-	A	A	B	B	B	A	X
Oleic Acid	B	C	C	B	B	C	-	C	C	-	-	-	B	-
Oleum Spirits	C	-	-	-	-	B	-	C	B	-	-	B	A	-
Olive Oil	A	X	X	B	B	A	B	B	B	-	X	-	A	A
O-Dichlorobenzene	-	-	-	-	-	X	-	X	-	B	-	B	A	-



AUSTRALIAN TECHNICAL RUBBER

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Oxalic Acid	-	B	B	A	A	B	C	B	B	X	B	A	A	-
Oxygen - cold	A	B	B	A	A	B	B	B	B	B	A	A	A	A
Oxygen 90 - 205°C	X	X	X	X	X	X	X	X	X	X	B	X	B	-
Ozone	A	X	X	B	A	X	A	B	A	A	A	X	A	B
Paint Thinner	-	X	X	X	X	-	-	-	-	B	-	B	B	-
Palmitic Acid	A	B	B	B	B	A	B	B	B	X	-	A	A	-
Peanut Oil	B	X	X	C	C	A	A	B	B	X	A	A	A	A
Perchloric Acid	-	-	-	B	B	-	C	A	A	A	X	A	A	-
Perchloroethylene	X	X	X	X	X	C	B	X	X	A	B	B	A	-
Petroleum - Below 250	B	X	X	X	X	A	A	B	B	X	B	B	A	A
Petroleum - Above 250	X	X	X	X	X	C	B	X	X	X	X	X	B	C
Phenol	X	C	C	B	B	X	-	C	C	-	C	B	A	-
Phenylbenzene	-	X	X	X	X	X	-	X	X	B	-	B	A	-
Phenyl Ethyl Ether	-	X	X	X	X	X	-	X	X	B	-	-	-	-
Phenyl Hydrazine	-	A	B	C	C	X	-	C	C	-	-	-	A	-
Phorone	-	-	-	B	B	X	-	-	-	C	-	-	-	-
Phosphoric Acid 20%	A	B	C	A	A	B	-	B	A	X	-	B	A	-
Phosphoric Acid 45%	A	X	X	B	B	X	-	B	B	X	X	B	A	-
Phosphorus Trichloride	-	X	X	A	A	X	-	X	X	-	-	A	A	-
Pickling Solution	-	-	-	C	C	-	X	-	C	-	-	-	B	-
Picric Acid	B	B	B	B	B	B	-	A	B	-	X	B	A	-
Pinene	B	X	X	X	X	B	-	B	B	B	X	B	A	-
Pine Oil	-	X	X	X	X	B	-	X	X	B	-	A	A	-
Piperidine	-	X	X	X	X	X	-	X	X	-	-	X	X	-
Plating Solution-Chrome	-	X	X	A	A	-	-	-	C	-	X	-	A	-
Plating Solution-Others	-	-	-	A	A	A	-	-	A	-	X	-	A	-
Polyvinylacetate Emulsion	-	-	-	A	A	-	-	B	B	-	-	-	-	-
Potassium Acetate	-	A	-	A	A	B	-	B	B	-	-	X	X	-
Potassium Chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Cupro Cyanide	A	A	A	A	A	A	-	A	A	A	A	A	A	A
Potassium Cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Carbonate	-	B	B	B	B	B	-	B	-	-	-	-	-	-
Potassium Dichromate	A	B	B	A	A	A	-	A	A	A	A	A	A	A
Potassium Hydroxide	B	B	B	A	A	B	A	A	A	B	C	C	B	X
Potassium Nitrate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Sulphate	A	B	B	A	X	A	A	A	A	B	A	A	A	X
Producer Gas	A	X	X	X	X	A	-	B	B	X	B	B	A	B
Propane	B	X	X	X	X	A	A	A	A	A	X	B	A	A
Propyl Acetate	-	X	X	B	B	X	X	X	X	B	-	X	X	-
Propyl Alcohol	X	A	A	A	A	A	A	A	A	A	A	A	A	X
Propyl Nitrate	-	-	-	B	B	-	-	-	-	-	C	X	X	-
Propylene	-	X	X	X	X	X	-	X	X	B	-	B	A	-
Propylene Oxide	-	-	-	B	B	-	-	X	X	-	X	-	-	-
Pyridine	-	X	X	B	B	X	X	X	X	-	-	-	X	-
Pyroligneous Acid	-	-	-	B	B	-	-	B	B	B	-	-	-	-
Pyrrole	-	C	C	C	C	X	-	X	-	X	B	B	-	X
Radiation	A	B	B	X	B	B	-	B	B	X	C	X	X	B
Rapeseed Oil	B	X	X	A	A	B	A	B	B	X	X	A	A	B



AUSTRALIAN TECHNICAL RUBBER

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Sal Ammoniac	A	A	A	A	A	A	-	A	A	A	B	A	A	A
Salicylic Acid	-	A	B	A	A	A	-	-	-	-	-	A	A	-
Salt Water	-	A	A	A	A	A	-	A	A	C	-	A	A	-
Sewage	X	B	B	B	B	A	-	A	A	X	B	A	A	X
Silicate Esters	A	X	X	X	X	B	-	A	A	-	X	A	A	-
Silicone Greases	A	A	A	A	A	A	A	A	A	A	C	A	A	A
Silicone Oils	A	A	A	A	A	A	A	A	A	A	C	A	A	A
Silver Nitrate	A	A	A	A	A	B	-	A	A	B	A	A	A	A
Skydrol 500	X	X	X	B	A	X	X	X	X	-	C	C	X	X
Skydrol 7000	X	X	X	A	A	X	X	X	X	X	B	C	B	X
Soap Solutions	A	B	B	A	A	A	A	A	A	X	A	A	A	X
Soda Ash	-	A	A	A	A	A	A	A	A	X	A	A	A	-
Sodium Acetate	X	A	C	A	A	B	-	B	B	X	-	X	X	X
Sodium Bicarbonate	-	A	A	A	A	A	A	A	A	C	A	A	A	-
Sodium Bisulfite	-	A	B	A	A	A	A	A	A	C	A	A	A	X
Sodium Borate	-	A	A	A	A	A	A	A	A	A	A	A	A	-
Sodium Chloride	A	A	A	A	A	A	A	A	A	C	A	A	A	-
Sodium Cyanide	-	A	A	A	A	A	A	A	A	A	A	A	A	-
Sodium Hydroxide	B	A	A	A	A	B	B	A	A	X	B	B	B	X
Sodium Hypochlorite	X	C	C	B	B	B	A	B	B	X	B	B	A	A
Sodium Metaphosphate	-	A	A	A	A	A	-	B	B	-	-	A	A	-
Sodium Nitrate	-	B	B	A	A	B	A	A	A	-	X	-	-	X
Sodium Perborate	-	B	B	A	A	B	-	B	B	B	B	A	A	X
Sodium Peroxide	X	B	B	A	A	B	-	B	B	-	X	A	A	A
Sodium Phosphate	A	A	A	A	A	A	-	A	A	-	X	-	A	-
Sodium Silicate	A	A	A	A	A	A	-	A	A	-	-	-	A	X
Sodium Sulphate	A	B	B	A	A	A	A	A	A	B	A	A	A	X
Sodium Thiosulfate	A	B	B	A	A	B	-	A	A	B	A	A	A	-
Soybean Oil	B	X	X	C	C	A	A	B	B	X	A	A	A	-
Stannic Chloride	-	A	A	B	B	A	-	A	A	-	B	A	A	-
Steam Under 150°C	X	X	X	A	A	X	-	C	X	-	X	X	X	X
Steam Over 150°C	X	X	X	C	B	X	X	X	X	-	X	X	X	X
Stearic Acid	A	B	B	B	B	B	B	B	B	-	A	-	-	-
Styrene	-	X	X	X	X	X	-	X	X	-	X	C	B	X
Sucrose Solution	-	A	A	A	A	A	-	A	A	X	-	-	-	-
Sulphite Liquors	-	B	B	B	B	B	B	B	B	X	X	B	A	X
Sulphur	-	X	X	A	A	X	C	A	A	X	A	A	A	X
Sulphur Chloride	-	X	X	X	X	C	-	C	B	-	-	A	A	X
Sulphur Dioxide	-	C	C	B	A	X	-	C	C	X	A	B	A	X
Sulphur Hexafluoride	-	-	A	A	A	A	A	A	A	-	A	A	A	-
Sulphur Trioxide	-	B	X	B	B	X	-	X	X	X	B	B	A	X
Sulphuric Acid (Dilute)	B	C	C	B	B	X	B	B	A	X	X	C	A	X
Sulphuric Acid (Conc.)	X	X	X	B	B	X	X	X	B	X	X	X	A	X
Sulphuric Acid (20% oleum)	X	X	X	X	X	X	X	X	X	X	X	X	A	X
Sulphurous Acid	X	B	B	B	B	B	-	B	A	X	X	-	A	X
Tannic Acid	A	A	B	A	A	A	-	A	A	A	B	-	A	X
Tar, Bituminous	-	X	X	X	X	B	B	C	C	-	B	A	A	X
Tararic Acid	A	A	B	B	B	A	B	B	A	X	A	A	A	-
Terpineol	B	X	X	C	C	B	-	X	X	A	-	A	A	-



AUSTRALIAN TECHNICAL RUBBER

CHEMICALS	PU	NR	SBR	IIR	EPM	NBR	CO	CR	CSM	T	SI	FSI	FPM	ACM
Tertiary Butyl Alcohol	X	B	B	B	B	B	-	B	B	B	B	B	A	X
Tertiary Butyl Catechol	X	X	C	B	B	X	-	B	B	X	-	A	A	X
Tertiary Butyl Mercaptan	X	X	X	X	X	X	-	X	X	-	-	-	A	-
Tetrabromomethane	-	X	X	X	X	X	-	-	-	-	-	B	A	-
Tetrachloroethylene	B	X	X	X	X	X	-	-	-	X	-	B	A	X
Tetraethyl Lead	-	X	X	X	X	B	-	C	C	-	-	B	A	-
Tetrahydrofuran	-	X	X	B	B	-	-	-	-	A	-	-	X	-
Tetralin	-	X	X	X	X	X	-	X	X	-	-	A	A	-
Thionyl Chloride	-	X	X	X	X	-	-	X	-	-	-	-	A	-
Titanium Tetrachloride	-	X	X	X	X	C	-	X	X	C	-	B	A	-
Toluene	C	X	X	X	X	U	X	X	X	X	X	B	A	-
Toluene Diisocyanate	-	C	C	A	A	-	-	X	X	-	-	-	-	-
Transformer Oil	-	X	X	X	X	A	-	B	B	-	B	A	A	B
Transmission Fluid Type A	A	X	X	X	X	A	A	B	B	A	B	A	A	A
Triacetin	X	B	C	A	A	B	-	B	B	B	-	X	X	X
Tributoxy Ethyl Phosphate	X	B	B	A	A	X	-	X	X	A	-	B	A	-
Tributyl Phosphate	X	B	X	A	A	X	-	X	C	A	-	X	X	X
Tributyl Mercaptan	-	X	X	X	X	X	-	X	X	-	-	-	A	-
Trichloroethane	X	X	X	X	X	X	-	X	X	X	X	B	A	X
Trichloroacetic Acid	-	C	B	B	B	B	-	B	B	-	-	-	C	X
Trichloroethylene	X	X	X	U	X	C	B	X	X	-	B	B	A	-
Tricresyl Phosphate	C	X	X	A	A	X	X	C	C	B	C	B	B	-
Triethanol Amine	X	B	B	B	B	C	-	A	A	X	-	X	X	X
Triethyl Aluminium	-	-	-	-	-	-	-	-	-	-	-	-	B	-
Triethyl Borane	-	-	-	-	-	-	-	-	-	-	-	-	A	-
Trinitrotoluene	-	X	X	X	X	X	-	B	B	B	-	B	B	-
Trioctyl Phosphate	-	X	X	A	A	X	-	X	X	B	C	B	B	X
Triary Phosphate	B	X	X	A	A	X	-	C	C	B	C	B	A	X
Tung Oil	B	X	X	C	X	A	-	B	B	B	-	B	A	-
Turbine Oil	-	X	X	X	X	B	A	B	B	A	-	B	A	B
Turpentine	X	X	X	X	X	A	A	X	X	B	X	B	A	A
ASTM Oil No 1	A	X	X	X	X	A	A	A	A	A	C	A	A	A
ASTM Oil No 2	B	X	X	X	X	A	A	B	B	A	C	A	A	A
ASTM Oil No 3	B	X	X	X	X	A	A	B	B	A	C	A	A	A