

TECHNICAL DATA

SUMMARY OF PIRTEK HYDRAULIC HOSE MATERIALS

Product Code	Type	Description	Liner Material	Cover Material
PE2	RUBBER	Two Wire Braid Hybrid Hose	NBR (Class 1)	NBR (Class 1)
PE4-6		Half Bend Radius, Four and Six Wire Spiral Hose	NBR (Class 1)	NBR (Class 1)
C21		3045 psi Four Spiral Hose	NBR (Class 1)	NBR (Class 1)
C25		3625 psi Four Spiral Hose	NBR (Class 1)	NBR (Class 1)
C35		5076 psi Braid or Spiral Hose	NBR (Class 1)	NBR (Class 1)
C42		6091 psi Braid or Spiral Hose	NBR (Class 1)	NBR (Class 1)
PC25		High Abrasion Resistance 3625 psi Hose	NBR (Class 1)	NBR (Class 1)
PC35		High Abrasion Resistance 5076 psi Hose	NBR (Class 1)	NBR (Class 1)
PC42		High Abrasion Resistance 6091 psi Hose	NBR (Class 1)	NBR (Class 1)
R1AT		One Wire Braid Hose	NBR (Class 1)	NBR (Class 1)
R2AT		Two Wire Braid Hose	NBR (Class 1)	NBR (Class 1)
R2ATHT		High Temp. Two Wire Braid Hose	NBR (Class 2)	NBR (Class 4)
100R5		Engine & Air Brake Hose	NBR (Class 1)	Fiber
R5HT		High Temp. Air Brake Hose	NBR (Class 2)	Polyester
PW3600B		3600 psi Pressure Washer Hose	NBR (Class 1)	NBR (Class 1)
PW4500		4500 psi Pressure Washer Hose	NBR (Class 1)	NBR (Class 1)
R17		Sae 100R17 3000 psi Hose	NBR (Class 1)	NBR (Class 1)
100R4		Hydraulic Suction Delivery	NBR (Class 1)	NBR (Class 1)
R4HT		High Temp. Hydraulic and Delivery	NBR (Class 2)	NBR (Class 4)
MPH		Multi-Purpose Oil & Air Hose	NBR (Class 1)	NBR (Class 1)
JH70	Jacking Hose	NBR (Class 1)	NBR (Class 1)	
JBF	Large Bore Four Spiral Hose	NBR (Class 1)	NBR (Class 1)	
TPR7	THERMOPLASTIC	General Purpose Sae 100R7	Polyester	Polyurethane
TPR7X2		General Purpose Twin Line SAE 100R7	Polyamide (Nylon)	Polyurethane
TPR7NC		Non-Conductive SAE R7	Polyester	Polyurethane
TP1W		One Wire Thermoplastic	Polyester	Polyurethane
TP1WX2		One Wire Thermoplastic Twin Line	Polyester	Polyurethane
TPR8		High Pressure Compact SAE R8	Polyamide (Nylon)	Polyurethane
TPR8NC		High Pressure Non-Conductive SAE R8	Polyamide (Nylon)	Polyurethane
STH		Stainless Steel Braid Over Teflon®	Teflon®	Stainless steel

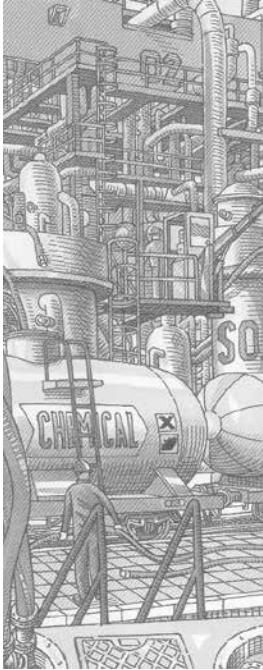
 WARNING: This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information please visit: www.p65warnings.ca.gov



This page is part of a complete catalog containing technical and safety data. All data must be reviewed when selecting a product. PIRTEK reserves the right to change technical specifications without notice.

TECHNICAL DATA

CHEMICAL RESISTANCE TABLE



CAUTION

The data in the following pages has been compiled from generally available sources and should not be relied upon without consulting and following the specific recommendations of the manufacturers of particular products.

The data is considered valid at 70°F (20°C) except where specified otherwise. Chemical compatibility can vary greatly with temperature.

A good rating does not necessarily indicate the suitability of a particular hose and chemical combination due to variables such as improper clamp and coupling application, special hose construction, gasket material etc. Nor does it imply compliance with relevant food standards or safety standards that may be applicable.

SOLVENT INFORMATION

Aromatic solvents: benzene, cumene, p-cumene, naphthalene, toluene, xylene, cresol, styrene, cyclohexane and combinations

Aliphatic solvents: propane, butane, pentane, hexane, heptane, dipetene, tripropylene

Halogenous solvents: chloroform, dichlorobenzene, dichloroethylene, methylen bromide, methylen chloride, benzyl chloride, carbon tetrachloride, trichloroethylene, carbon disulphite, turpentine, perchloroethylene, dichloroethane

Ketonic solvents: acetone, methyl ketone, isobutyl ketone, methyl ethyl ketone, methyl isobutyl ketone

Esters solvents: butyl acetate, methyl acetate, anyl acetate, isobutyl acetate

Amines: aniline, ethylene diamine, diethanol amine, triethanolamine, dimethyl amine, monoethanolamine

Alcohols: methanol, ethanol, propanol, butanol, glycerol

Common Elastomers	ASTM Designation	Composition	General Properties
Brominated Butyl Chlorinated Butyl	BIIR CIIR	Bromo Isobutene-Isoprene Chloro Isobutene-Isoprene	Excellent weathering resistance, low permeability to air and gases, good physical properties, resistant to heat poor resistance to petroleum based fluids, good resistance to fat.
Chlorinated Polyethylene	CM (CPE)	Chloro Polyethylene	Excellent ozone and weathering resistance, good oil and chemical resistance, excellent flame resistance.
Cross-Linked Polyethylene	XLPE UHMWPE	Polyethylene and Cross Linking Agent	Excellent for a very wide range of solvents, chemicals, acids and oils.
Ethylene Propylene	EPDM	Ethylene Propylene Diene-Terpolymer	Excellent ozone, chemical and aging resistance, poor resistance to petroleum based fluids, very good steam resistance.
Ethylene Propylene	EPM (EPR)	Ethylene Propylene Copolymer	Excellent ozone, weathering, heat, chemical and aging resistance, poor resistance to petroleum products, very good steam resistance
Hypalon®	CSM	Chloro-Sulfonyl-Polyethylene	Excellent weathering, ozone and acid resistance, good heat and abrasion resistance, fair resistance to petroleum based fluids.
Natural	NR	Isoprene Natural	Excellent physical properties, very good abrasion resistance, poor resistance to petroleum based fluids.
Neoprene	CR	Chloroprene	Good weathering and flame retardant resistance, good oil resistance, good physical properties.
Nitrile (Buna-N)	NBR	Acrylonitrile-Butadiene	Excellent petroleum products resistance, moderate resistance to aromatics, good physical properties.
Buna-N / Polyvinyl Chloride	PVC / NBR	Acrylonitrile-Butadiene / Polyvinyl-Chloride	Excellent petroleum products and weathering resistance, both for tube and cover.
Polyacrylic	ACM	Acrylic Monomer	Excellent oil and tar resistance at high temperatures.
Sbr	SBR	Styrene Butadiene	Good physical properties, good abrasion resistance, poor resistance to petroleum based fluids.
Viton®	FKM	Fluorocarbon Rubber	Excellent high temperature resistance, particularly in air and oil, very good chemical resistance.

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TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Acetaldehyde	-	-	-	U	G	G	G	G	U
Acetic Acid, Glacial	G	U	-	C	G	C	C	C	G
Acetic Acid, Less Than 10%	G	U	-	C	G	-	-	-	-
Acetic Acid, Over 10%	C	U	-	C	-	-	-	-	-
Acetic Anhydride	C	-	-	-	G	C	C	C	U
Acetone	U	C	-	U	G	G	C	U	U
Acetophenone	-	-	-	U	-	-	-	-	-
Acetyl Acetone	-	-	-	U	-	-	-	-	-
Acetyl Bromide	-	-	-	-	-	U	U	U	U
Acetyl Chloride	-	-	-	U	-	U	U	U	U
Acetylene	U	U	-	U	G	G	G	G	-
Acrylonitrile	-	-	-	-	G	-	-	-	-
Air (Under 20kgf/Cm2)	G	-	-	G	G	G	G	G	G
Alcohols	-	-	-	-	-	G	C	C	G
Aluminium	-	-	-	-	G	-	-	-	-
Aluminium Acetate	-	-	-	-	G	-	-	-	-
Aluminium Bromide	-	-	-	-	G	-	-	-	-
Aluminium Chloride	-	C	-	G	G	U	-	-	G
Aluminium Fluoride 20%	-	C	-	U	G	-	-	-	-
Aluminium Hydroxide	-	-	-	-	G	-	-	-	-
Aluminium Nitrate 10% Aqueous	-	-	-	C	G	-	-	-	-
Aluminium Salts	-	-	-	-	G	-	-	-	-
Aluminium Sulphate	-	C	-	G	G	G	-	-	G
Aluminium Sulphate	-	-	-	-	G	-	-	-	-
Alums	-	C	-	G	G	U	-	-	G
Ammonia Gas, Cold	G	C	-	-	G	U	U	U	U
Ammonia Gas, Hot	C	-	-	-	G	-	-	-	-
Ammonia, Aq	G	G	-	C	G	-	-	-	-
Ammonia, Liquid (Anhydrous)	-	U	-	C	G	-	-	-	-
Ammonium Carbonate	-	-	-	U	-	-	-	-	-
Ammonium Chloride	-	U	-	U	G	G	G	G	G
Ammonium Hydroxide	G	C	-	U	G	U	U	U	U
Ammonium Metaphosphate	-	-	-	-	G	-	-	-	-
Ammonium Nitrate	-	C	-	U	G	G	C	G	G
Ammonium Nitrite	-	-	-	-	C	-	-	-	-
Ammonium Phosphate	-	U	-	U	G	G	C	G	G
Ammonium Sulphate	-	C	-	U	G	G	C	G	G
Ammonium Thiocyanate	-	-	-	-	G	-	-	-	-
Amyl Acetate	U	U	-	U	G	G	C	C	U
Amyl Alcohol	-	U	-	C	G	G	G	G	G
Amyl Chloride	-	-	-	-	G	-	-	-	-
Amyl Chloronaphthalene	-	-	-	-	G	-	-	-	-
Amyl Naphthalene	-	-	-	-	G	-	-	-	-
Anethole	-	-	-	-	-	G	-	-	-
Aniline	U	U	-	U	G	C	U	U	C
Aniline Dyes	-	U	-	-	G	-	-	-	-
Aniline Hydrochloride	-	-	-	-	G	-	-	-	-
Animal Oils	-	-	-	-	-	G	G	G	G
Antimony Salts	-	-	-	-	-	G	G	G	G
Apocor Monsanto (Chlorinated Hydrocarbon)	-	-	-	-	-	G	C	C	C
Aqua Regia	-	-	-	-	-	-	-	-	-
Aromatic Hydrocarbons	-	-	-	-	-	G	C	C	U
Arsenic Acid	-	-	-	-	G	-	-	-	-
Arsenic Salts	-	-	-	-	G	G	G	G	G
Askarel	-	-	-	-	G	-	-	-	-
Asphalt <105 C	C	U	-	G	G	G	G	G	G
Automatic Transmission Fluid (ATF)	G	-	-	-	G	G	G	G	-
Barium Carbonate	-	-	-	-	G	-	-	-	-
Barium Chloride	-	C	-	C	G	G	G	G	G
Barium Hydroxide	-	C	-	C	G	-	-	-	-

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Barium Salts	-	-	-	-	-	G	G	G	G
Barium Sulphate	-	-	-	-	G	-	-	-	-
Barium Sulphide	-	U	-	C	-	-	-	-	-
Basic Copper Arsenate	-	-	-	-	-	G	G	G	G
Beer	-	-	-	-	G	-	-	-	-
Beet Sugar Liquors	-	-	-	-	-	G	-	-	-
Benzaldehyde	-	-	-	-	-	G	G	G	U
Benzene (Benzol)	U	U	-	U	C	G	C	C	U
Benzenesulphonic Acid	-	-	-	-	C	-	-	-	-
Benzine	G	-	-	-	G	-	-	-	-
Benzine (Petroleum Ether)	-	-	-	-	G	-	-	-	-
Benzine (Petroleum Naphtha)	-	-	-	-	-	-	-	-	-
Benzoic Acid	-	-	-	U	-	G	U	U	G
Benzyl Alcohol	-	-	-	U	G	C	C	C	C
Benzyl Benzoate	-	-	-	-	G	-	-	-	-
Benzyl Chloride	-	-	-	-	G	-	-	-	-
Biodiesel < 92c	-	-	-	C	-	-	-	-	-
Biodiesel > 92c	-	-	-	U	-	-	-	-	-
Bismuth Carbonate	-	-	-	-	G	-	-	-	-
Black Sulphate Liquor	-	-	-	C	G	-	-	-	-
Blast Furnace Gas	-	-	-	G	G	-	-	-	-
Borac Acid	-	-	-	-	G	-	-	-	-
Borax	-	C	-	C	G	G	G	G	C
Bordeaux Mixture	-	-	-	-	G	G	G	G	G
Boric Acid	G	U	-	G	G	G	G	G	G
Boric Copper Sulphate	-	-	-	-	-	G	G	G	G
Brake Oil, Dot 3	C	C	-	U	C	G	-	-	-
Brake Oil, Dot 4	C	C	-	U	C	G	-	-	-
Brake Oil, Dot 5	G	C	-	U	G	-	-	-	-
Brine	G	U	-	C	G	-	-	-	-
Bromine	U	U	-	U	G	U	U	U	C
Bunker Oil	-	-	-	-	G	-	-	-	-
ButAdiene	-	-	-	-	G	-	-	-	-
Butane	G	-	-	U	G	-	-	-	-
Butter Oil	-	-	-	-	G	G	G	G	G
Butyl Acetate	U	U	-	U	G	G	C	C	U
Butyl Alcohol (Butanol)	-	C	-	G	G	G	G	G	G
Butyl Amine	-	-	-	-	-	-	-	-	-
Butyl Carbitol	-	-	-	-	G	-	-	-	-
Butyl Cellosolve	-	-	-	U	-	-	-	-	-
Butyl Mercaptan	-	-	-	-	G	-	-	-	-
Butyl Stearate	-	-	-	U	G	-	-	-	-
Butylene (Butene)	-	-	-	C	-	-	-	-	-
Butyraldehyde	-	-	-	U	G	-	-	-	-
Butyric Acid	-	-	-	-	G	-	-	-	-
Calcium Acetate 10% Aq	-	-	-	C	G	-	-	-	-
Calcium Arsenate	-	-	-	-	-	G	G	G	G
Calcium Bisulphate 10% Aq	-	-	-	G	G	-	-	-	-
Calcium Bisulphide	-	-	-	-	-	-	-	-	-
Calcium Bisulphite	-	U	-	-	G	G	G	G	C
Calcium Carbonate	-	-	-	-	G	-	-	-	-
Calcium Chlorate	-	-	-	-	G	-	-	-	-
Calcium Chloride 10% Aq	-	C	-	C	G	G	G	G	G
Calcium Hydroxide 10% Aq	G	G	-	C	G	G	C	C	G
Calcium Hypochlorite 10% Aq	-	U	-	U	G	G	C	C	G
Calcium Nitrate 10% Aq	-	-	-	G	G	-	-	-	-
Calcium Salts	-	-	-	-	-	G	G	G	G
Calcium Silicate	-	-	-	-	G	-	-	-	-
Calcium Sulphate	-	-	-	-	G	-	-	-	-
Calcium Sulphide	-	-	-	-	G	-	-	-	-

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Legend:									
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Caliche Liquors (Chile Saltpetre)	-	G	-	-	-	-	-	-	-
Cane Sugar Liquors	-	-	-	-	G	-	-	-	-
Carbitol	-	-	-	C	-	-	-	-	-
Carbolic Acid (Phenol)	-	U	-	U	G	U	U	U	U
Carbon Bisulfide	-	-	-	-	-	G	C	C	U
Carbon Dioxide	G	G	-	G	G	-	-	-	-
Carbon Disulphide	U	U	-	U	-	G	C	C	U
Carbon Monoxide	C	C	-	G	G	G	G	G	G
Carbon Tetrachloride	U	U	-	U	G	G	U	U	C
Carbonates	-	-	-	-	-	-	-	-	-
Carbonic Acid	-	U	-	U	G	G	C	C	G
Castor Oil	-	-	-	C	G	G	C	C	G
Caustic Potash (<20%)	-	-	-	-	-	G	C	C	G
Caustic Potash (>20%)	-	-	-	-	-	C	C	C	C
Caustic Soda (Sodium Hydroxide) <20%	-	-	-	-	G	G	C	C	G
Caustic Soda (Sodium Hydroxide) >20%	-	-	-	-	-	C	C	C	C
Cellosolve Acetate	-	U	-	U	G	-	-	-	-
Cellosolve Butyl	-	-	-	-	-	-	-	-	-
Cellulubes Celanese (Phosphate Ester Base)	-	-	-	-	G	G	U	U	U
Cellusolves Union Carbide	-	-	-	-	-	G	U	U	U
China Wood Oil (Tung)	-	G	-	C	G	-	-	-	-
Chlordane	-	-	-	-	-	G	G	G	C
Chlorinated Solvents	-	U	-	-	-	G	U	U	U
Chlorine Gas, Dry	C	C	-	U	G	U	U	U	C
Chlorine Gas, Wet (<20%)	U	U	-	U	G	C	U	C	G
Chlorine Trifluoride	-	-	-	-	-	-	-	-	-
Chloroacetic Acid	-	U	-	U	G	U	U	U	U
Chloroacetone	-	-	-	U	-	-	-	-	-
Chlorobenzene	-	-	-	U	G	-	-	-	-
Chlorobromomethane	-	-	-	-	G	-	-	-	-
Chloroform	U	U	-	U	G	G	U	U	U
Chloronaphthalene	-	-	-	-	G	-	-	-	-
Chlorosulphonic Acid	U	U	-	U	G	-	-	-	-
Chlorotoluene	-	-	-	-	G	-	-	-	-
Chromic Acid 30%	U	U	-	U	G	U	U	U	C
Chromium Salts	-	-	-	-	-	G	G	G	G
Cider	-	-	-	-	-	G	G	G	G
Citric Acid	G	U	-	G	G	G	C	C	G
Coal Gas	-	-	-	-	G	G	G	G	G
Cod Liver Oil	-	-	-	-	G	-	-	-	-
Coke Oven Gas	-	C	-	U	G	-	-	-	-
Compressed Air (< 290 Psi or 2000 Kpa)	-	-	-	G	G	-	-	-	-
Copper Chloride	-	-	-	-	-	G	C	G	G
Copper Chloride 10% Aq	-	U	-	G	U	-	-	-	-
Copper Cyanide 10% Aq	-	-	-	-	-	-	-	-	-
Copper Sulphate 10% Aq	-	U	-	G	G	G	G	G	G
Corn Oil	-	G	-	-	G	G	G	G	G
Corn Syrup	-	-	-	-	G	-	-	-	-
Cottonseed Oil	G	G	-	C	G	G	G	G	G
Creosote Oil	-	U	-	C	G	U	U	U	C
Cresol	C	-	-	-	G	U	U	U	C
Cresylic Acid	-	-	-	-	-	U	U	U	C
Crude Petroleum Oil	-	U	-	C	G	G	C	G	G
Crude Wax	-	-	-	-	G	-	-	-	-
Cupric Sulphate	-	-	-	-	-	C	C	C	G
Cutting Oil White & Bagley No. 2190	-	-	-	-	G	-	-	-	-
Cyclohexane	C	-	-	-	G	G	G	G	-
Cyclohexanol	-	-	-	G	-	-	-	-	-
Cyclohexanone	-	-	-	-	G	G	G	G	U
Cymene	-	-	-	-	G	-	-	-	-

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Legend:									
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Decalin	-	-	-	-	G	G	-	-	-
Denatured Alcohol	-	-	-	-	G	-	-	-	-
Detergent / Water Solution (Conc.)	C	-	-	G	G	-	-	-	-
Diacetone	-	-	-	-	G	-	-	-	-
Diacetone Alcohol	-	-	-	-	G	G	C	C	U
Diammonium Phosphate	-	-	-	-	G	G	C	U	G
Dibenzyl Ether	-	-	-	-	G	-	-	-	-
Dibutyl Ether	-	-	-	-	G	-	-	-	-
Dibutyl Phthalate	-	-	-	-	G	G	C	C	-
Dibutyl Sebacate	-	-	-	-	G	-	-	-	-
Dichlorobenzene	-	-	-	-	G	-	-	-	-
Diesel Fuel	G	G	C	C	G	G	G	G	C
Diesel Oil Light	G	C	-	C	G	G	-	-	-
Diethanolamine (20% Conc.)	-	-	-	-	G	G	C	C	-
Diethyl Ether	-	-	-	-	G	G	C	C	C
Diethyl Phthalate	-	-	-	-	G	-	-	-	-
Diethyl Sebacate	-	-	-	-	G	-	-	-	-
Diethylamine	-	-	-	C	-	-	-	-	-
Diethylene Glycol	-	-	-	-	G	-	-	-	-
Di-Isobutylene	-	-	-	-	U	-	-	-	-
Di-Isopropyl Ketone	-	-	-	-	G	-	-	-	-
Dimethyl Aniline	-	-	-	-	G	-	-	-	-
Dimethyl Formamide	-	-	-	-	U	-	-	-	-
Dimethyl Phthalate	-	-	-	-	G	-	-	-	-
Diocetyl Phosphate	-	-	-	-	-	G	C	C	U
Diocetyl Phthalate (Dop)	-	-	-	C	G	G	C	C	U
Dioxane	-	-	-	-	G	-	-	-	-
Dipentene	-	-	-	-	G	-	-	-	-
Dowtherm A and E	-	-	-	U	-	-	-	-	-
Enamels	-	-	-	-	-	G	G	G	G
Essential Oils	-	-	-	-	-	G	G	G	G
Ethanol	C	C	-	C	G	G	C	C	C
Ethanolamine	-	-	-	-	-	-	-	-	-
Ether	G	U	-	-	G	G	C	C	C
Ethyl Acetate	U	U	-	U	G	G	C	C	U
Ethyl Acetoacetate	-	-	-	-	G	-	-	-	-
Ethyl Acrylate	-	-	-	-	-	-	-	-	-
Ethyl Alcohol (Ethanol)	C	C	-	C	G	G	C	C	C
Ethyl Benzene	-	-	-	U	G	-	-	-	-
Ethyl Cellulose	-	-	-	-	-	-	-	-	-
Ethyl Chloride	-	C	-	U	G	G	U	U	U
Ethyl Ether	-	-	-	-	G	-	-	-	-
Ethyl Mercaptan	-	-	-	-	G	-	-	-	-
Ethyl Pentochlorobenzene	-	-	-	-	G	-	-	-	-
Ethyl Silicate	-	-	-	-	G	-	-	-	-
Ethylene Cellulose	G	U	-	U	G	-	-	-	-
Ethylene ChlorhydrIn	-	-	-	-	G	U	U	U	U
Ethylene Chloride	-	-	-	-	G	-	-	-	-
Ethylene Diamine	-	-	-	-	G	-	-	-	-
Ethylene Dichloride	-	U	-	U	G	G	U	U	U
Ethylene Glycol	G	G	-	G	G	G	G	C	G
Ethylene Oxide	-	-	-	-	-	G	C	C	-
Fatty Acid	-	-	-	-	G	G	G	G	G
Ferric Chloride	-	U	-	G	-	C	-	-	G
Ferric Chloride	-	-	-	-	G	-	-	-	-
Ferric Nitrate	-	-	-	-	G	-	-	-	-
Ferric Nitrate 10% Aq	-	-	-	G	-	-	-	-	-
Ferric Sulphate 10% Aq	-	U	-	G	G	G	G	G	G
Ferrous Chloride	-	-	-	-	G	-	-	-	-
Ferrous Nitrate	-	-	-	-	G	-	-	-	-

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TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Ferrous Salt Solutions	-	U	-	-	-	-	-	-	-
Ferrous Sulphate	-	-	-	-	G	-	-	-	-
Fluoboric Acid	-	-	-	-	-	-	U	U	C
Fluoboric Acid	-	-	-	-	G	-	U	-	-
Fluorine	-	-	-	-	-	U	U	U	C
Fluorosilicic	-	-	-	-	-	-	-	U	C
Formaldehyde	C	U	-	U	G	G	C	C	G
Formic Acid	G	U	-	C	G	U	U	U	C
Freon 12 (Refrigerant)	C	C	-	-	G	G	C	C	C
Freon 13 (Refrigerant)	C	-	-	-	-	-	-	-	-
Freon 22 (Refrigerant)	C	-	-	-	-	-	-	-	-
Fruit Juices	-	-	-	-	-	G	G	G	G
Fuel Oil	G	C	-	C	G	G	G	G	C
Fuel Oil (Aromatic Gas) 100 Octane	-	-	-	-	-	G	G	G	C
Fuel Oil (Aromatic Gas) 100 Octane	-	-	-	-	-	-	-	-	-
Fumaric Acid	-	-	-	-	-	-	-	-	-
Furan Furfuran	-	-	-	-	G	-	-	-	-
Furfural	C	C	-	U	G	-	-	-	-
Furfuryl Alcohol	-	-	-	-	-	G	G	G	G
Galic Acid (< 20%)	-	-	-	C	G	G	C	C	G
Gas (Natural)	-	-	-	-	G	G	G	G	G
Gas Oil	-	-	-	-	-	G	C	G	C
Gaseous Hydrogen	-	-	-	-	G	-	-	-	-
Gasohol	-	-	-	C	-	-	-	-	-
Gasoline	G	U	-	C	G	G	G	G	C
Gasoline (Aromatic)	-	-	-	-	-	G	G	G	C
Gasoline (Nor-Aromatic)	-	-	-	-	-	G	G	G	G
Gelatine	-	G	-	-	-	G	G	G	G
Glucose	-	G	-	-	G	G	G	G	G
Glue (Depends On Type)	-	G	-	-	G	G	G	G	G
Glycerine, Glycerol	G	G	-	G	G	G	G	G	G
Glycol To Wc	-	-	-	-	G	G	G	C	G
Grease,Petroleum	G	C	-	-	G	G	G	G	C
Green Sulphate Liquor	-	U	-	U	G	-	-	-	-
Heavy Water (D20)	G	-	-	-	G	G	G	-	-
Helium	-	-	-	G	-	-	-	-	-
Heptane	U	G	-	C	G	G	G	G	C
Hexaldehyde	-	-	-	U	G	-	-	-	-
Hexane	U	G	-	G	G	G	G	G	C
Hexene	-	-	-	-	G	-	-	-	-
Hexyl Alcohol	-	-	-	-	G	-	-	-	-
Hydraulic Oil Phos. Ester Blend (MIL L-7808)	-	U	-	-	G	G	C	C	U
Hydraulic Oil, Auto Transmission Fluid	-	-	-	-	G	G	G	G	U
Hydraulic Oil, Chlorine Base	U	-	-	-	G	-	-	-	-
Hydraulic Oil, Ester Blend	-	-	-	-	G	-	-	-	-
Hydraulic Oil, Ordinary Petro	G	G	-	-	G	-	-	-	-
Hydraulic Oil, Phosphate Ester (FR)	U	U	-	U	G	G	C	C	U
Hydraulic Oil, Silicone Oil	G	G	-	-	G	-	-	-	-
Hydraulic Oil, Sodium Silicate Base	-	-	-	-	G	-	-	-	-
Hydraulic Oil, Water & Petrol Emulsion (FR)	-	C	-	C	G	-	-	-	-
Hydraulic Oil, Water Glycol (85c)	C	G	-	C	G	G	C	G	G
Hydraulic,Oil, Water & Oil Emulsion	C	C	-	C	G	G	G	G	G
Hydrobromic Acid	-	U	-	G	G	-	-	-	-
Hydrochloric Acid V%	-	U	-	U	G	G	U	C	G
Hydrocyanic Acid	G	C	-	U	G	U	-	-	G
Hydrofluoric Acid, Cold	-	-	-	U	G	U	U	U	C
Hydrofluoric Acid, Hot	-	U	-	U	G	-	-	-	-
Hydrofluorsilic Acid	-	-	-	G	G	-	-	-	-
Hydrogen (Gaseous)	G	C	-	G	G	G	G	G	G
Hydrogen Peroxide, Concentrated	-	U	-	C	G	U	U	U	C

AGENT	RUBBER				THERMOPLASTIC				
	Class I	Class II	Class III	Class IV	Teflon®	Nylon	Polyester	Polyurethane	PVC
Hydrogen Peroxide, Dilute	-	U	-	C	G	G	G	G	G
Hydrogen Sulphate, Gaseous	-	-	-	-	G	-	-	-	-
Hydrogen Sulphide, Dry	C	U	-	U	G	C	C	-	G
Hydrogen Sulphide, Wet	G	U	-	-	G	-	-	-	-
Hydrogluosilic Acid	-	U	-	-	-	-	-	-	-
Hydrolube Union Carbide - (Hydraulic Fluid Water Glycol Base)	-	-	-	-	-	G	C	G	G
Irus Shell 902 Hydraulic Fluid (Water-Oil Emulsion)	-	-	-	-	G	-	-	-	-
Iso Octane	-	-	-	G	G	-	-	-	-
Isobutyl Alcohol	-	-	-	-	G	-	-	-	-
IsocyanAtes	-	-	-	U	-	G	G	G	-
Isopropyl Acetate	-	-	-	U	G	G	C	C	U
Isopropyl Alcohol	-	-	-	G	G	-	-	-	-
Isopropyl Ether	-	-	-	C	G	-	-	-	-
Jp-4, Jp-5	-	-	-	-	-	-	-	-	-
Kerosene	G	C	-	C	G	G	G	G	C
Ketones	-	-	-	-	-	G	C	C	U
Lacquer	U	U	-	U	G	-	-	-	-
Lacquer Solvents	-	U	-	U	G	G	C	C	U
Lactic Acid	C	U	-	-	G	G	-	-	G
Lard	-	-	-	-	G	G	G	G	G
Lead Acetate	-	-	-	-	G	-	-	-	-
Lead Arsenate	-	-	-	-	-	G	G	G	G
Lead Sulphate	-	-	-	-	-	G	G	G	G
Lead Tetramethyl	-	-	-	-	-	G	G	G	-
Light Oil	G	-	-	-	-	G	G	G	G
Lime	-	-	-	-	-	G	G	G	G
Lime Sulphur	-	-	-	U	-	-	-	-	-
Linoleic Acid	-	-	-	-	G	-	-	-	-
Linseed Cake	-	-	-	-	-	G	G	G	G
Linseed Oil	G	G	-	C	G	G	G	G	G
Liquefied Petroleum Gas (LPG)	U	-	-	U	-	-	-	-	-
Lubricating Oils, Diester Base	-	-	-	-	-	G	C	C	-
Lubricating Oils, Petro Base	G	G	-	C	-	-	-	-	-
Magnesium Chloride 10%Aq	-	U	-	G	G	G	G	G	G
Magnesium Hydroxide 10%Aq	G	C	-	G	G	G	C	C	G
Magnesium Sulphate 10%Aq	-	G	-	G	G	G	G	G	G
Maleic Acid	-	-	-	-	G	G	C	C	G
Mercuric Chloride	G	C	-	G	G	G	G	G	C
Mercury	G	G	-	G	G	G	G	G	G
Mesityl Oxide	-	-	-	-	G	-	-	-	-
Methane	-	-	-	-	-	G	G	G	U
Methy Salicylate	-	-	-	-	G	-	-	-	-
Methyl Acetate	-	-	-	-	G	G	C	C	U
Methyl Alcohol (Methanol)	-	C	-	C	G	G	C	C	U
Methyl Bromide	-	-	-	U	G	C	U	U	U
Methyl Chloride	-	U	-	U	G	G	U	U	U
Methyl Ethyl Ketone (MEK)	-	-	-	U	G	G	C	C	U
Methyl Formate	-	-	-	-	G	-	-	-	-
Methyl Isopropyl Ketone	-	-	-	C	-	-	-	-	-
Methyl Methacrylate	-	-	-	-	G	-	-	-	-
Methyl Sulphate	-	-	-	-	-	G	G	G	-
Methylene Chloride	-	-	-	-	G	-	-	-	-
Methylisobutylketone (MIBK)	-	-	-	-	G	G	C	C	U
MIL-H-46170	-	-	-	C	-	-	-	-	-
MIL-H-5606	-	-	-	C	-	-	-	-	-
MIL-H-6083	-	-	-	C	-	-	-	-	-
MIL-H-83282	-	-	-	C	-	-	-	-	-



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TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Milk	-	-	-	-	G	G	G	G	G
Mil-L-2104	-	-	-	G	-	-	-	-	-
Mil-L-23699	-	-	-	G	-	-	-	-	-
Mil-L-7808	-	-	-	G	-	-	-	-	-
Mineral Oils	G	-	-	G	G	G	G	G	G
Molasses	-	-	-	-	G	G	G	G	G
Monochlorobenzene	-	-	-	-	G	-	-	-	-
Mustard	-	-	-	-	G	G	G	G	-
Naphtalene	C	U	-	U	G	G	C	C	U
Naphtha	G	C	-	G	G	C	C	C	U
Naphtenic Acid	-	-	-	-	G	-	-	-	-
Natural Gas	-	G	-	U	G	-	-	-	-
Nickel Acetate 10% Aq	-	-	-	G	G	-	-	-	-
Nickel Chloride	-	U	-	G	G	U	U	-	U
Nickel Sulphate	-	U	-	G	G	-	-	-	-
Nicotine	-	-	-	-	G	G	G	G	G
Nitric Acid (Conc)	U	U	-	U	G	C	U	U	G
Nitric Acid (Dil)	C	U	-	U	G	C	C	C	G
Nitric Acid (Red, Fuming)	-	-	-	-	G	-	-	-	-
Nitrobenzene	-	U	-	U	G	G	U	U	U
Nitrogen / Argon Gaseous	G	-	-	G	G	-	-	-	-
Nitrous Oxide	-	-	-	-	G	G	G	G	G
Octyl Alcohol	-	-	-	U	G	-	-	-	-
Oil	-	-	-	-	G	G	G	G	C
Oil Of Turpentine	-	-	-	-	G	G	G	G	G
Oleic Acid	G	U	-	U	G	-	-	-	-
Oleum Spirits	-	U	-	C	-	G	G	G	C
Olive Oil	-	-	-	-	G	-	-	-	-
Ortho-Dichlorobenzene	-	-	-	U	-	-	-	-	-
OS 45 Monsanto Hyd. Fluid (Silicate Ester Base)	-	-	-	-	G	C	C	-	-
Oxalic Acid	-	C	-	C	G	C	C	G	G
Oxygen (Liquid)	-	U	-	U	-	-	-	-	-
Oxygen Gaseous	-	-	-	-	G	-	-	-	-
Ozone	-	-	-	-	G	G	G	G	G
Paint (Oil Based)	-	-	-	-	G	G	G	G	C
Paint Solvents (Oil Base)	-	-	-	-	G	G	C	C	C
Palmitic Acid	-	U	-	G	G	G	G	G	G
Peanut Oil	-	-	-	-	G	-	-	-	-
Pentane	-	-	-	-	G	G	G	C	C
Perchloric Acid	-	-	-	U	G	U	U	U	C
Perchloroethylene	-	U	-	U	G	G	U	U	C
Petroleum Oils (Refined)	-	-	-	-	G	G	G	G	G
Petroleum Oils (Sour)	-	-	-	-	G	G	C	C	G
Phenol (Carbolic Acid)	-	U	-	U	-	U	U	U	C
Phenolates	-	-	-	-	-	C	C	G	C
Phenols (Carbolic Acid)	-	-	-	-	G	-	-	-	-
Phosphate Ester Base Oil	-	U	-	U	-	-	-	-	-
Phosphoric Acid (70%)	-	-	-	U	-	-	-	-	-
Phosphoric Acid 10%	G	U	-	U	-	G	U	U	G
Picric Acid (Molten)	-	U	-	-	G	C	U	U	G
Picric Acid (Solution)	-	C	-	-	G	-	-	-	-
Pine Oil	-	-	-	-	G	-	-	-	-
Pinene	-	-	-	-	G	-	-	-	-
Plating Solution, Chrome	-	-	-	-	G	-	-	-	-
Potassium Acetate 10% Aq	-	-	-	G	G	-	-	-	-
Potassium Chloride	-	U	-	G	G	G	G	G	G
Potassium Cyanide	-	G	-	G	G	-	-	-	-
Potassium Dichromate	-	-	-	G	G	-	-	-	-
Potassium Hydroxide (Potash)	G	U	-	G	G	C	U	U	C
Potassium Nitrate	-	-	-	-	G	G	G	G	G

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Potassium Permanganate (5% Conc.)	-	-	-	-	-	U	U	U	G
Potassium Sulphate	-	G	-	G	G	G	G	G	G
Propane	-	-	-	-	G	G	G	G	G
Propyl Acetate	-	-	-	-	U	-	-	-	-
Propyl Alcohol	-	-	-	-	G	-	-	-	-
Pydraul (Stauffer) F-9,150, 600, 625	-	-	-	-	-	G	C	C	U
Pyrethrum	-	-	-	-	-	G	G	G	G
Pyridine	-	-	-	-	G	C	C	G	U
Red Oil	-	-	-	-	G	-	-	-	-
Salt Water (Sea Water)	G	U	-	C	G	G	G	G	G
Saturated Steam	U	-	-	U	-	-	-	-	-
Sewage	-	-	-	G	G	-	-	-	-
Silicone Oils	-	G	-	G	-	-	-	-	-
Silver Nitrate	-	-	-	-	G	-	-	-	-
Skydrol Monsanto 500, 7000	-	-	-	-	G	G	U	U	U
Soap Solutions	C	-	G	G	G	G	G	G	G
Soda (Sodium Carbonate)	G	-	-	G	-	G	G	G	G
Soda Water	-	-	-	-	-	G	G	G	C
Sodium Acetate 10% Aq	-	-	-	G	G	-	-	-	-
Sodium Bicarbonate 10% Aq	-	-	-	G	G	-	-	-	-
Sodium Bisulfite	-	-	-	-	-	G	G	G	G
Sodium Bisulphate	-	U	-	-	G	-	-	-	-
Sodium Borate	-	-	-	-	G	G	G	G	G
Sodium Carbonate	-	-	-	-	-	G	G	G	G
Sodium Chloride Solutions	G	U	-	-	G	G	G	G	G
Sodium Cyanide	-	-	-	-	-	G	G	G	G
Sodium Hydroxide <10%	-	U	-	C	G	G	C	C	G
Sodium Hydroxide 40%	-	U	-	-	G	-	-	-	-
Sodium Hypochloride 10%	-	-	-	-	-	-	-	-	-
Sodium Hypochlorite	-	U	-	G	G	C	C	C	G
Sodium Metaphosphate 10% Aq	-	-	-	-	-	-	-	-	-
Sodium Nitrate 10% Aq	-	-	-	G	G	G	G	G	G
Sodium Perborate 10% Aq	-	U	-	G	G	-	-	-	-
Sodium Peroxide 10% Aq	C	U	-	G	G	-	-	-	-
Sodium Phosphates 10% Aq	-	U	-	C	G	G	G	G	G
Sodium Silicate 10% Aq	G	-	-	G	-	G	G	G	G
Sodium Sulphate 10% Aq	-	-	-	G	-	G	G	G	G
Sodium Sulphide	-	-	-	-	-	G	G	G	G
Sodium Sulphite 10% Aq	G	-	-	G	G	-	-	-	-
Sodium Thiosulphate (Hypo) 10% Aq	-	U	-	G	G	G	G	G	G
Solution 2-4D DDT Preparation Hydroxy Quinoline	-	-	-	-	-	G	-	-	G
Soybean Oil	-	G	-	C	G	-	-	-	-
Stannic Chloride	-	U	-	G	G	-	-	-	-
Stannous Chloride	-	-	-	-	-	C	G	G	G
Steam	-	-	-	-	G	U	U	U	U
Steam	-	U	-	U	G	-	-	-	-
Stearic Acid	-	-	-	-	-	G	G	C	G
Stearic Acid, Botanical	-	C	-	G	G	-	-	-	-
Stearin	-	-	-	-	-	G	G	G	-
Stoddard Solvent	-	-	-	-	G	G	U	U	C
Styrene	-	-	-	-	G	G	C	C	-
Sucrose Solution	-	-	-	-	G	-	-	-	-
Sulphur	C	G	-	G	G	G	G	G	G
Sulphur Chloride	-	C	-	U	G	-	-	-	-
Sulphur Dioxide	G	U	-	U	G	U	U	U	C
Sulphur Trioxide	-	U	-	-	-	C	U	U	G
Sulphuric Acid, 10%, Hot	G	U	-	U	G	-	-	-	-
Sulphuric Acid, 10%, Cold	G	U	-	U	G	C	U	U	G
Sulphuric Acid, 75%, Cold	U	U	-	U	G	-	-	-	-

TECHNICAL DATA CHEMICAL RESISTANCE TABLE

AGENT	RUBBER				THERMOPLASTIC				
	Class 1	Class 2	Class 3	Class 4	Teflon®	Nylon	Polyester	Polyurethane	PVC
Legend: G = Good C = Conditional U = Unsatisfactory - No Data									
Sulphuric Acid, 75%, Hot	U	U	-	U	G	-	-	-	-
Sulphuric Acid, 95%, Cold	U	U	-	U	G	U	U	U	U
Sulphuric Acid, 95%, Hot	U	U	-	U	G	-	-	-	-
Sulphurous Acid	G	-	-	G	U	U	U	U	C
Tannic Acid	G	U	-	G	G	G	C	C	G
Tar	-	U	-	G	G	G	G	G	G
Tartaric Acid	-	U	-	G	G	G	G	G	G
Terpineol	-	-	-	-	G	-	-	-	-
Toluene	U	U	-	U	G	G	C	C	U
Toluol	-	-	-	-	G	C	C	U	
Transformer Oil	-	-	-	-	G	-	-	-	-
Transmission Fluid Type A	G	-	-	-	G	-	-	-	-
Tributoxyethyl Phosphate	-	-	-	-	G	-	-	-	-
Tributyl Phosphate	-	-	-	-	G	G	C	C	U
Trichloroacetic Acid	-	-	-	-	-	U	U	U	C
Trichlorethylene	U	U	-	U	G	G	U	U	C
Tricresyl Phosphate	-	-	-	U	-	G	C	C	U
Trisodium Phosphate Solution	-	-	-	-	-	G	C	C	G
Tung Oil (China Wood Oil)	-	G	-	-	G	-	-	-	-
Turpentine Oil	-	U	-	G	G	G	G	G	G
Ucon Union Carbide									
(Hydraulic Fluid Water Glycol Base)	-	-	-	-	-	G	C	G	G
Urea	-	-	-	-	G	G	C	C	G
Uric Acid	-	-	-	-	-	G	U	U	G
Varnish	U	-	-	G	-	G	G	G	U
Vegetable Greases	-	-	-	-	G	-	-	-	-
Versilube	-	-	-	-	G	-	-	-	-
Vinegar	-	-	-	-	G	G	C	C	G
Vinyl Chloride	-	-	-	-	G	-	-	-	-
Water @ 65°C	-	G	G	C	G	G	G	G	G
Water Glycol	-	-	-	G	-	-	-	-	-
Water, Normal Temp	G	C	G	G	G	-	-	-	-
Whiskey	-	-	-	-	G	-	-	-	-
White and Bagley No. 2190 Cutting Oil	-	-	-	-	G	G	-	-	-
Wine	-	-	-	-	G	G	G	G	G
Wool Oil	-	-	-	-	-	G	G	G	G
Xylene	-	-	-	U	G	G	C	C	U
Xylol	-	-	-	-	-	G	C	C	U
Zinc Acetate	-	-	-	-	G	-	-	-	-
Zinc Chloride 10% Aq	-	C	-	G	G	G	G	G	G
Zinc Hydrate	-	-	-	-	-	U	C	C	G
Zinc Sulphate 10% Aq	-	C	-	G	G	U	C	C	G