Chemical Resistance Chart



The listed chemicals have been tested with results noted below. It is recommended that samples of conduit should be tested under actual conditions wherever possible, since results may differ from test conditions.

1- ExcellentContinuous Service

2- Good

Intermittent Service

3- Fair Limited Service Life 4- Poor

Do not use

Continuous Service	intermittent Service			
	Jacket Material			erial
Chemical	%	TPR	TPU	PVC
Acetate Solvents				4
Acetic Acid	10		2	2
Acetic Acid (Glacial)		4		3
Acetone		2	4	4
Acrylonitrile				1
Alcohols (Aliphatic)				3
Aluminum Chloride	10	2	2	1
Aluminum Sulfate (Alums)		2		1
Ammonia (Anhydrous Liquids)				4
Ammonia (Aqueous)				1
· · · · · · · · · · · · · · · · · · ·				<u> </u>
Ammoniated Latex				1
Ammonium Chloride	10	2	2	1
Ammonium Hydroxide		2		1
Amyl Acetate		4		4
Aniline Oils			4	4
7 dimine one				
Aromatic Hydrocarbons				4
Asphalt		4		4
ASTM Fuel A		 	2	3
ASTM Fuel B		4	2	4
ASTM# 1 Oil		+		
ASTM # 1 OII		4	2	2
ASTM # 3 Oil		4	_	
Barium Chloride		4	2	3
				1
Barium Sulfide				1
Barium Hydroxide		-	4	1
Benzene (Benzol)		4	4	4
Danzina (Datroloum Ether)			4	2
Benzine (Petroleum Ether)			4	3
Black Liquor				1
Bordeaux Mixture				1
Boric Acid			2	1
Butyl Acetate		4	4	4
				_
Butyl Alcohol	_	2	4	2
Calcium Hydroxide				1
Calcium Hypochlorite				1
Carbolic Acid (Phenol)		4		2
Carbon Dioxide		2		1
Carbon Disulfide		4		4
Carbon Tetrachloride			4	4
Carbonic Acid				1
Casein				1
Caustic Soda	10	2	1	1
Chlorine Gas (wet)		2		4
Chlorine Gas (dry)		2		4
Chlorine (water solution)				3
Chlorobenzene		4	4	4
Chlorinated Hydrocarbons				4

		Jacket Material			
Chemical	%		TPU		
Chromic Acid	10	2	4	2	
Citric Acid			2	1	
Coal Tar				4	
Coconut Oil				3	
Corn Oil				1	
Cottonseed Oil				3	
Creosote		4		4	
Cresol				3	
Cresylic Acid				4	
Cyclohexane			4	2	
DDT West Willer				4	
DDT Weed Killer		4		1	
Dibutyl Phthalate	-	4	-	4	
Diesel Oils	-	4		3	
Diethylene Glycol	-		2	2	
Diethyl Ether				1	
Di-isodecyl Phthalate				4	
Dioctyl Phthalate			1	4	
Dow General Weed Killer (Phenol)			-	4	
Dow General Weed Killer (H2O)				2	
Ethyl Alcohol		1	4	3	
Ethyr Alcohol		'		3	
Ethylene Dichloride		4		4	
Ethylene Glycol	50	·	2	2	
Ferric Chloride	10	1	2	1	
Ferric Sulfate	1.0	1		1	
Ferrous Chloride		2		1	
Ferrous Sulfate		1		1	
Formaldehyde		1		4	
Fuel Oil		4		2	
Furfural		4		3	
Gallic Acid				1	
Gasoline (Hi Test)		4	4	3	
Glycerine		2	1	1	
Grease			1	1	
Green Sulfate Liquor				1	
Heptachlor in Petroleum Solvents				1	
Heptane		4	2	3	
Hexane		4	2	3	
Hydrobromic Acid		2	1	1	
Hydrochloric Acid	10	2		1	
Hydrochloric Acid	40			3	
Livelya alabaria A aird	70				
Hydrochloric Acid	70			4	
Hydrofluorobonic Acid		4		1	
Hydrofluorosilicic Acid	40	4	_	1	
Hydrogen Peroxide	10	2	1	1	
Iso-octane		4		3	

Chemical Resistance Chart



Jacket Material

The listed chemicals have been tested with results noted below. It is recommended that samples of conduit should be tested under actual conditions wherever possible, since results may differ from test conditions.

1- ExcellentContinuous Service

2- Good Intermittent Service 3- Fair Limited Service Life **4- Poor**Do not use

Sopropyl Acetate			la alcat Matarial		
Isopropyl Acetate	Chemical	%			_
Isopropyl Alcohol	Onemean	70		11 0	1.00
Jet Fuels (JP-3,4 and 5)	Isopropyl Acetate				4
Kerosene 4 2 3 Ketones 4 4 4 Linseed Oil 4 1 1 Lubricating Oils 1 1 1 Magnesium Chloride 30 1 2 1 Magnesium Sulfate 1 1 1 1 Malathion 50 in Aromatics 4			4	1	2
Kerosene 4 2 3 Ketones 4 4 4 Linseed Oil 4 1 1 Lubricating Oils 1 1 1 Magnesium Chloride 30 1 2 1 Magnesium Sulfate 1 1 1 1 Malathion 50 in Aromatics 4	Jet Fuels (JP-3,4 and 5)				3
Linseed Oil			4	2	3
Lubricating Oils 1 Magnesium Chloride 30 1 2 1 Magnesium Hydroxide 1 1 1 Magnesium Sulfate 1 1 1 Malathion 50 in Aromatics 4 4 4 Malic Acid 1 1 1 Methyl Acotate 4 4 4 Methyl Bromide 4 4 4 Maintracket 4 4 4	Ketones		4		4
Lubricating Oils 1 Magnesium Chloride 30 1 2 1 Magnesium Hydroxide 1 1 1 Magnesium Sulfate 1 1 1 Malathion 50 in Aromatics 4 4 4 Malic Acid 1 1 1 Methyl Acotate 4 4 4 Methyl Bromide 4 4 4 Maintracket 4 4 4					
Magnesium Chloride 30 1 2 1 Magnesium Hydroxide 1 1 1 Magnesium Sulfate 1 1 1 Malathion 50 in Aromatics 4 4 4 Malic Acid 1 1 1 Methyl Acetate 4 4 4 4 Methyl Bromide 4 4 4 4 4 Methyl Bromide 4 1 3 Naphthalene 4 4 4 4 4	Linseed Oil		4		1
Magnesium Hydroxide 1 1 Magnesium Sulfate 1 1 Malathion 50 in Aromatics 4 4 Malic Acid 1 1 Methyl Acetate 4 4 4 Methyl Bromide 4 4 3 Methyl Bromide 4 4 4 Methyl Ethyl Ketone 4 4 4 Mithid All Solid Coll 2 1 1 Mirric Acid 1 2 1 1 Naphtha 4 1 3 3 2 1 Nitric Acid 10 2 4 1 1 Nitric Acid 70 4 4 4 4 </td <td>Lubricating Oils</td> <td></td> <td></td> <td></td> <td>1</td>	Lubricating Oils				1
Magnesium Sulfate 1 Malathion 50 in Aromatics 4 Malic Acid 1 Methyl Acetate 4 4 Methyl Bromide 4 3 Methyl Bromide 4 4 Methyl Ethyl Ketone 4 4 Methylene Chloride 4 4 Mineral Oil 2 1 Monochlorobenzne 4 4 Muriatic Acid (See Hydrochloric Acid) 2 - Naphtha 4 1 3 Naphthalene 4 4 4 Nitric Acid (See Hydrochloric Acid 10 2 4 1 Naphthalene 4 4 4 4 4 Nitric Acid (See Hydrochloric Acid 10 2 4 1 1 Naphthalene 4 4 4 4 4 4 4 4 4 4 4 4 1 3 1 1 1 1 1 1	Magnesium Chloride	30	1	2	1
Magnesium Sulfate 1 Malathion 50 in Aromatics 4 Malic Acid 1 Methyl Acetate 4 4 Methyl Bromide 4 3 Methyl Bromide 4 4 Methyl Ethyl Ketone 4 4 Methylene Chloride 4 4 Mineral Oil 2 1 Monochlorobenzne 4 4 Muriatic Acid (See Hydrochloric Acid) 2 - Naphtha 4 1 3 Naphthalene 4 4 4 Nitric Acid (See Hydrochloric Acid 10 2 4 1 Naphthalene 4 4 4 4 4 Nitric Acid (See Hydrochloric Acid 10 2 4 1 1 Naphthalene 4 4 4 4 4 4 4 4 4 4 4 4 1 3 1 1 1 1 1 1	Magnesium Hydroxide		1		1
Malic Acid 1 Methyl Acetate 4 4 4 Methyl Bromide 4 3 Methyl Bromide 4 4 Methyl Ethyl Ketone 4 4 4 Methylene Chloride 4 4 4 4 Mineral Oil 2 1 1 4	Magnesium Sulfate				1
Malic Acid 1 Methyl Acetate 4 4 4 Methyl Bromide 4 3 Methyl Bromide 4 4 Methyl Ethyl Ketone 4 4 4 Methylene Chloride 4 4 4 4 Mineral Oil 2 1 1 4	Malathian FO in Annualin				ļ.,
Methyl Acetate 4 4 4 Methyl Bromide 4 3 Methyl Bromide 4 4 Methyl Ethyl Ketone 4 4 Methylene Chloride 4 4 Mineral Oil 2 1 Monochlorobenzne 4 4 Muriatic Acid (See Hydrochloric Acid) 2 - Naphtha 4 1 3 Naphthalene 4 4 4 Nitric Acid (See Hydrochloric Acid) 10 2 4 1 Nitric Acid (See Hydrochloric Acid 10 2 4 1 3 1 1 1 4					_
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Methyl Ethyl Ketone 4 4 Methylene Chloride 4 4 4 Mineral Oil 2 1 Monochlorobenzne 4 4 4 Muriatic Acid (See Hydrochloric Acid) 2 - - Naphtha 4 1 3 Naphthalene 4 4 4 4 4 4 1 3 Naphthalene 4			4		
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Petroleum Ether 4 3 Phenol 4 2 Phosphoric Acid 85 2 4 1 Pitch 2 1 2 Potassium Hydroxide 2 1 2 Propyl Alcohol 2 2 2 Ritchfield "A" Weed Killer 3 3 3 Sea Water 1 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 Sodium Cyanide 1 3 3 Soddard Solvent 4 4					
Phenol 4 2 Phosphoric Acid 85 2 4 1 Pitch 2 1 2 Potassium Hydroxide 2 1 2 Propyl Alcohol 2 2 2 Ritchfield "A" Weed Killer 3 3 3 Sea Water 1 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 1 Sodium Cyanide 1 3	Perchloroethylene		4	4	4
Phosphoric Acid 85 2 4 1 Pitch 2 1 Potassium Hydroxide 2 1 Propyl Alcohol 2 2 Ritchfield "A" Weed Killer 3 Sea Water 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 1 Soybean Oil 3 <t< td=""><td>Petroleum Ether</td><td></td><td>4</td><td></td><td>3</td></t<>	Petroleum Ether		4		3
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Potassium Hydroxide 2 1 Propyl Alcohol 2 2 Ritchfield "A" Weed Killer 3 Sea Water 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 Soybean Oil 3 3 3 Sodium Cyanide 1 1 Stoddard Solvent 4 4	Phosphoric Acid	85	2	4	1
Propyl Alcohol 2 2 Ritchfield "A" Weed Killer 3 Sea Water 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 Soybean Oil 3 3 3 Sodium Cyanide 1 1 Stoddard Solvent 4 4	Pitch				2
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Ritchfield "A" Weed Killer 3 Sea Water 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 Soybean Oil 3 3 Sodium Cyanide 1 1 Stoddard Solvent 4 4		+	_		_
Sea Water 1 1 1 Sodium Hydroxide 10 1 2 1 Sodium Hydroxide 50 4 1 Soybean Oil 3 3 Sodium Cyanide 1 1 Stoddard Solvent 4 4		+	4		_
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Sodium Hydroxide 50 4 1 Soybean Oil 3 Sodium Cyanide 1 Stoddard Solvent 4		10			_
Soybean Oil 3 Sodium Cyanide 1 Stoddard Solvent 4	Sodium nydroxide	10			+ -
Soybean Oil 3 Sodium Cyanide 1 Stoddard Solvent 4	Sodium Hydroxide	50		4	1
Sodium Cyanide 1 Stoddard Solvent 4					3
Stoddard Solvent 4					1
Styrene 4					4
	Styrene				4

Chemical	%	TPR	TPU	PVC
Chemical	/0	IFK	1110	FVC
0.16 D: :1 (1: :1)				
Sulfur Dioxide (Liquid)		4		4
Sulfuric Acid	50	1	2	1
Sulfuric Acid	98	2		4
Sulfurous Acid	10	1		2
Tall Oil				4
		1		
Tannic Acid		4		1
Toluene		4	4	4
Trichlorethylene		<u> </u>	4	4
Triethanol Amine				3
			4	
Tricresyl Phosphate (Skydrol)			4	4
			_	
Turpentine		4	2	3
Vinegar				1
Vinyl Chloride				4
Water		1	1	1
White Liquor				1
·				
Xylene		4		4
Zinc Chloride		2		1
Zinc Sulfate		2		1
Ziric Suriate				<u> </u>
	1			21
				-51