



# **GLOBAL O-RING AND SEAL, LLC**

This Generic Chemical Compatibility Chart is offered only as a general guide, indicating the suitability of various elastomers for service in these chemicals and fluids. The ratings are based, for the most part, on published literature of various polymer suppliers, rubber manufacturers, and in some cases, the considered opinion of experienced compounders. We cannot guarantee their accuracy nor assume any responsibility for use thereof. Therefore, we recommend that you always TEST your materials for your particular application before moving to production.

# Chemical Compatibility Chart

## Polymer Comparison

ASTM Abbr	Temperature Range (°F)		Durometer Range		Media Resistance							
	Low	High	Low	High	Oil	Fuel	Acid	Alkali	Ozone	Steam	Brake	Weather
ACM	-40	400	50	80	E	P-G	P-F	G-E	G-E	P	P	E
AEM	-50	350	40	90	F	P-G	P-F	P-F	E	P	P	E
AU	-65	250	40	90	G	P-G	P-G	P-F	E	P	P	E
CIIR	-50	300	60	70	P	P	F-E	G-E	E	G-E	G	F
CM	-60	300	80	80	G-E	P-F	G-E	E	E	P-F	G	E
CR	-80	220	30	90	F-G	P-F	F-G	G-P	G-E	P-G	F	P-G
CSM	-65	275	50	80	E	F	G-E	G-E	E-O	P-G	F	E-O
ECO	-80 to -15	275 to 325	50	90	E	G-E	P-G	P-G	G-E	F-G	P	G-E
EPDM	-75	350	40	90	P	P	G	G	G-E	E	G-E	E
EU	-65	250	40	90	G	P-G	P-G	P-F	E	P	P	E
FEPM	0	450 to 500	70	90	E	P-F	F-G	E	E	G-E	F-E	E
FKM	-20 to 20	500	50	90	E	E	G-E	P-G	O	P-G	F	E
FVMQ	-110 to -90	450	40	80	G-E	G-E	F-G	G-E	E	F-G	E	E
HSN	-40	350	60	90	E	P-F	F-E	P-E	G-E	E	F	G-E
IIIR	-75	300	60	70	P	P	F-E	G-E	E	G-E	G	E
IR	-60 to -20	180	30	70	P	P	P-G	F-G	P	F-G	G	P-F
NBR	-70 to -40	250 to 300	30	95	E	F-G	F-G	P-G	P-F	F-G	P	P-F
PVMQ	-150	450	20	80	F	P	P-F	P-E	E-O	F	G	E
SBR	-75	250	40	80	P	P-F	F	F-G	P	F-G	P-G	F-G
TFE	N/A	400 to 500	95	95	E	E	E	E	O	E	E	E
VMQ	-100	500	20	80	F-G	P	P-G	P-E	E-O	F-G	E	E
XNBR	-50	250	50	90	E	F-G	F-G	P-G	P-F	P-F	P	P-F

Values shown in the tables are for general comparison only. They do not represent individual compound recipes.

P	Poor
F	Fair
G	Good
E	Excellent
O	Outstanding

## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
AN-O-3 Grade M	1	1	4	1	1	2	4	1	1	4	4	2	1	2
AN-O-6	1	1	4	1	1	2	4	1	1	4	4	2	1	4
AN-O-366	1	1	4	1	2	2	4	1	1	4	4	2	1	4
AN-VV-O-366b Hydraulic Fluid	1	1	4	1	1	2	4	2	2	4	4	2	1	4
ANG-25 (Di-ester Base)	2	2	4	1	2	4	4	2	4	4	4	4	2	2
ANG-25 (Glyceral Ester)	2	2	1	1	1	2	2	4	4	2	2	2	2	2
ASTM Oil #1	1	1	4	1	1	1	4	1	1	4	4	2	1	1
ASTM Oil #2	1	1	4	1	1	2	4	1	2	4	4	4	1	4
ASTM Oil #3	1	1	4	1	1	4	4	1	2	4	4	4	1	3
ASTM Oil #4	2	2	4	1	1	4	4	2	4	4	4	4	2	4
ASTM Oil #5	1	1	4	1	1	2	X	X	X	X	X	X	X	X
ASTM Reference Fuel A	1	1	4	1	1	2	4	2	1	4	4	2	1	4
ASTM Reference Fuel B	1	1	4	1	1	4	4	4	2	4	4	4	1	4
ASTM Reference Fuel C	2	2	4	1	1	4	4	4	4	4	4	4	2	4
ASTM Reference Fuel D	2	2	4	1	4	4	X	X	X	X	X	X	X	X
ATL-857	2	2	4	1	1	4	4	2	4	4	4	4	2	4
Abietic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acetaldehyde	3	3	2	4	3	3	3	4	4	2	2	3	4	2
Acetamide	1	1	1	3	2	1	4	4	4	2	4	2	1	2
Acetanilide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Acetic Acid, 30%	X	X	1	X	X	X	X	X	X	X	X	X	X	X
Acetic Acid, 5%	2	2	1	1	1	1	2	4	4	1	2	1	2	1
Acetic Acid, Glacial	2	2	1	2	3	4	2	4	4	2	2	3	2	1
Acetic Acid, Hot, High Pressure	4	4	3	4	3	4	4	4	4	4	4	3	4	3
Acetic Anhydride	3	4	2	4	2	2	2	4	4	2	2	2	4	2
Acetoacetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Acetone	4	4	1	4	2	4	4	4	4	1	4	3	4	4
Acetone Cyanohydrin	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Acetonitrile	3	X	1	1	1	X	X	X	X	X	X	X	X	X
Acetophenetidine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Acetophenone	4	4	1	4	2	4	4	4	4	2	4	4	4	4
Acetotoluidide	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Acetyl Acetone	4	4	1	4	2	4	4	4	4	1	4	4	4	4
Acetyl Bromide	4	4	1	1	2	4	4	4	4	1	4	4	4	4
Acetyl Chloride	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Acetylene	1	1	1	1	1	2	2	4	4	1	2	2	X	2
Acetylene Tetrabromide	4	4	1	1	1	2	4	X	4	1	X	X	X	X

## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Acetylene Tetrachloride	4	4	1	1	1	2	4	X	4	1	X	X	X	X
Acetylsalicylic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Acids, Non-organic	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acids, Organic	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aconitic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acridine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Acrolein	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Acrylic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Acrylonitrile	4	4	4	3	3	4	3	4	4	4	3	3	4	4
Adipic Acid	1	1	2	X	2	X	X	X	X	X	X	X	X	X
Aero Lubriplate	1	1	4	1	2	1	2	1	1	4	4	1	1	2
Aero Shell 17 Grease	1	1	4	1	2	2	4	1	1	4	4	1	1	2
Aero Shell 750	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Aero Shell 7A Grease	2	2	4	1	2	2	4	1	1	4	4	1	1	2
Aero Shell IAC	1	1	4	1	2	2	4	1	1	4	4	1	1	2
Aerosafe 2300	4	4	1	4	2	4	4	4	4	2	4	4	3	3
Aerosafe 2300W	4	4	1	4	2	4	4	4	4	2	4	4	3	3
Aerozene 50 (50% Hydrazine 50% UDMH)	3	3	1	4	2	4	4	X	4	1	4	4	4	4
Air Below 200° F	2	2	1	1	1	1	2	1	2	1	2	1	1	1
Air, 200 - 300° F	3	3	2	1	1	2	4	2	3	2	4	2	1	1
Air, 300 - 400° F	4	4	4	1	2	4	4	4	4	4	4	4	2	1
Air, 400 - 500° F	4	4	4	3	3	4	4	4	4	4	4	4	4	2
Aliphatic Dicarboxylic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Alkanes (Paraffin Hydrocarbons)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Alkanesulfonic Acid	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Alkazene	4	4	4	2	2	4	4	4	4	4	4	4	2	4
Alkenes (Olefin Hydrocarbons)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Alkyl Acetone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Alkyl Alcohol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Alkyl Amine	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Alkyl Aryl Sulfonates	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Alkyl Aryl Sulfonics	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Alkyl Benzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Alkyl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Alkyl Sulfide	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Alkyl naphthalene Sulfonic Acid	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Allyl Chloride	2	2	4	1	X	1	X	X	X	X	X	X	X	X

1 = Satisfactory, 2 = Fair, 3 = Poor, 4 = Unsatisfactory, X = Unknown

## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Allylidene Diacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Alpha Picoline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aluminum Acetate	2	2	1	4	2	2	2	4	4	1	1	4	4	4
Aluminum Bromide	1	1	1	1	1	1	1	1	3	1	1	1	1	1
Aluminum Chlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aluminum Chloride	1	1	1	1	1	1	1	1	3	1	1	1	1	2
Aluminum Ethylate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aluminum Fluoride	1	1	1	1	1	1	1	X	3	1	2	1	1	2
Aluminum Fluorosilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aluminum Formate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aluminum Hydroxide	2	X	1	2	1	X	X	X	X	X	X	X	X	2
Aluminum Linoleate	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Aluminum Nitrate	1	1	1	1	1	1	1	X	3	1	1	1	X	2
Aluminum Oxalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aluminum Phosphate	1	1	1	1	1	1	X	X	X	X	X	X	X	2
Aluminum Potassium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aluminum Salts	1	1	1	1	1	1	1	1	3	1	1	1	1	1
Aluminum Sodium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aluminum Sulfate	1	1	1	1	1	1	2	4	4	1	1	1	1	1
Alums-NH3 -Cr -K	1	1	1	4	2	1	1	4	X	1	1	1	4	1
Ambrex 33 (Mobil)	1	1	4	1	2	2	4	1	2	4	4	3	3	4
Ambrex 830 (Mobil)	1	1	3	1	2	2	4	1	1	3	4	2	1	2
Amines-Mixed	4	4	2	4	3	2	2	4	4	2	2	4	4	2
Aminoanthraquinone	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminoazobenzene	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminobenzene Sulfonic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminobenzoic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminopyridine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aminosalicilyc Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ammonia (Anhydrous)	2	2	1	4	2	1	4	4	4	1	4	4	4	2
Ammonia and Lithium Metal in Solution	2	2	2	4	3	X	4	4	4	2	4	4	4	4
Ammonia, Gas, Cold	1	1	1	4	2	1	1	4	X	1	1	1	4	1
Ammonia, Gas, Hot	4	4	2	4	2	2	4	4	X	2	4	2	4	X
Ammonia, Liquid (Anhydrous)	2	2	1	4	2	1	4	4	4	1	4	2	4	2
Ammonium Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Arsenate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Benzoate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Ammonium Bicarbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Bisulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Bromide	1	1	1	1	1	1	1	X	1	1	1	1	X	X
Ammonium Carbamate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Carbonate	4	4	1	1	1	1	1	4	4	1	1	1	X	X
Ammonium Chloride, 2N	1	1	1	1	1	1	1	X	1	1	1	1	X	X
Ammonium Citrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Dichromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Diphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Fluoride	1	1	1	1	1	1	1	X	1	1	1	1	X	X
Ammonium Fluorosilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ammonium Formate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Hydroxide, 3 Molar	1	1	1	3	2	1	2	4	4	1	2	1	1	1
Ammonium Hydroxide, Concentrated	4	4	1	4	2	1	3	4	4	1	3	1	1	1
Ammonium Iodide	1	1	1	1	1	1	1	X	1	1	1	1	X	X
Ammonium Lactate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Metaphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Molybdenate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Nitrate, 2N	1	1	1	X	2	1	1	2	X	1	3	1	X	X
Ammonium Nitrite	1	1	1	X	2	1	1	X	X	1	1	1	X	2
Ammonium Oxalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Perchlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Perchloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ammonium Persulfate 10%	4	4	1	X	2	1	4	4	4	1	1	X	X	X
Ammonium Persulfate Solution	4	4	1	X	2	X	4	4	4	1	1	X	X	X
Ammonium Phosphate	1	1	1	4	2	1	1	X	X	1	1	1	X	1
Ammonium Phosphate, Dibasic	1	1	1	X	2	1	1	X	X	1	1	1	X	1
Ammonium Phosphate, Mono-Basic	1	1	1	X	2	1	1	X	X	1	1	1	X	1
Ammonium Phosphate, Tribasic	1	1	1	X	2	1	1	X	X	1	1	1	X	1
Ammonium Phosphite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Picrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Polysulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Salicylate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Salts	1	1	1	3	2	1	1	3	X	1	1	1	3	1
Ammonium Sulfamate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Sulfate	1	1	1	4	2	1	2	4	X	1	1	1	X	X
Ammonium Sulfate Nitrate	1	1	1	4	2	1	2	4	X	1	1	1	X	X

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Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Ammonium Sulfide	1	1	1	4	2	1	2	4	X	1	1	1	X	X
Ammonium Sulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Thiocyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Thioglycolate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Thiosulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Tungstate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ammonium Valerate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Amyl Acetate	1	1	3	4	3	4	4	4	4	3	4	4	4	4
Amyl Alcohol	2	2	1	2	1	2	2	4	4	1	2	2	1	4
Amyl Borate	1	1	4	1	2	1	4	X	X	4	4	1	X	X
Amyl Butyrate	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Amyl Chloride	X	X	4	1	2	4	4	4	X	4	4	4	2	4
Amyl Chloronaphthalene	4	4	4	1	2	4	4	4	X	4	4	4	2	4
Amyl Cinnamic Aldehyde	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Amyl Laurate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Amyl Mercaptan	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Amyl Naphthalene	4	4	4	1	2	4	4	2	4	4	4	4	1	4
Amyl Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Amyl Nitrite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Amyl Phenol	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Amyl Propionate	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Anderol, L- 774 (di-ester)	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Anderol, L- 826 (di-ester)	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Anderol, L- 829 (di-ester)	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Aniline	4	4	2	3	2	4	4	4	4	2	4	4	3	4
Aniline Dyes	4	4	2	2	2	2	2	4	4	2	2	2	2	3
Aniline Hydrochloride	2	2	2	2	2	4	3	4	4	2	2	4	2	3
Aniline Hydrochloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aniline Oil	4	4	2	3	2	4	4	4	4	2	4	4	3	4
Aniline Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Aniline Sulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Animal Fats	1	1	2	1	1	2	X	X	X	X	X	X	X	X
Animal Oil (Lard Oil)	1	1	2	1	2	2	4	1	2	2	4	2	1	2
Anisole	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anisoyl Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ansul Ether 161 or 181	3	3	3	4	3	4	4	4	2	3	4	4	3	4
Anthracene	2	2	4	1	X	4	4	4	3	4	4	4	2	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Anthranilic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anthraquinone	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Anti-freeze Solutions	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Antimony Chloride	1	1	4	1	1	2	4	1	1	4	4	2	1	4
Antimony Pentachloride	1	1	4	1	1	2	4	1	1	4	4	2	1	4
Antimony Pentafluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Antimony Sulfate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Antimony Tribromide	1	1	4	1	1	2	4	1	1	4	4	2	1	4
Antimony Trichloride	1	1	4	1	1	2	4	1	1	4	4	2	1	4
Antimony Trifluoride	1	1	4	1	1	2	4	1	1	4	4	2	1	4
Antimony Trioxide	1	1	4	1	1	2	4	1	1	4	4	2	1	4
Aqua Regia	4	3	3	2	3	4	X	X	X	X	X	X	X	X
Arachidic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Argon	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Aroclor, 1248	3	3	2	1	1	4	4	4	4	2	4	4	2	2
Aroclor, 1254	4	4	2	1	1	4	4	4	4	4	4	4	2	3
Aroclor, 1260	1	1	X	1	1	1	1	4	4	1	1	1	1	1
Aromatic Fuel - 50%	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Arsenic Acid	1	1	1	1	1	1	1	3	3	1	2	1	1	1
Arsenic Oxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Arsenic Trichloride	1	1	4	4	X	1	X	X	X	X	X	X	X	X
Arsenic Trioxide	1	1	4	4	X	1	X	X	X	X	X	X	X	X
Arsenic Trisulfide	1	1	4	4	X	1	X	X	X	X	X	X	X	X
Arsenites	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Arsine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Aryl Orthosilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ascorbic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Askarel Transformer Oil	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Aspartic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Asphalt	2	2	4	1	2	2	4	2	2	4	4	2	2	4
Atlantic Dominion F	1	1	4	1	2	2	4	1	2	4	4	4	1	4
Atlantic Utro Gear-EP Lube.	1	1	4	1	2	2	4	1	1	4	4	4	1	4
Atlantic Utro Gear-e	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Aure 903R (Mobil)	1	1	4	1	2	2	4	1	1	4	2	4	4	4
Automatic Transmission Fluid	1	1	4	1	2	2	4	1	2	4	4	3	X	4
Automotive Brake Fluid	3	3	1	4	2	2	1	4	4	2	X	2	4	3
Azobenzene	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Bardol B	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Barium Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Barium Chlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Barium Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Cyanide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Hydroxide	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Barium Iodide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Barium Oxide	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Barium Peroxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Barium Polysulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Barium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Barium Sulfate	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Barium Sulfide	1	1	1	1	1	1	2	4	1	1	1	1	1	1
Bayol 35	1	1	4	1	2	2	4	1	2	4	4	4	1	4
Bayol D	1	1	4	1	2	2	4	1	4	4	4	4	1	4
Beer	1	1	1	1	1	1	1	4	2	1	1	1	1	1
Beet Sugar Liquids	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Beet Sugar Liquors	1	1	1	1	1	2	1	4	4	1	1	1	1	1
Benzaldehyde	4	4	1	4	2	4	4	4	4	1	4	1	4	2
Benzaldehyde Disulfonic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzamide	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzanthrone	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzene	4	4	4	1	2	4	4	4	4	4	4	4	3	4
Benzene Hexachloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzenesulfonic Acid 10%	4	4	4	1	2	2	4	4	4	4	4	1	2	4
Benzidine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzidine 3 Sulfonic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzil	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzilic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzine (Ligroin)	1	1	4	1	2	2	4	1	2	4	4	3	1	4
Benzocatechol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzochloride	4	4	1	1	1	4	4	4	X	2	4	4	1	X
Benzoic Acid	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Benzoin	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzonitrile	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Benzophenone	X	X	2	1	2	X	4	4	4	2	X	X	1	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Benzoquinone	X	X	2	1	2	X	4	4	4	2	X	X	X	X
Benzotrithloride	4	4	1	1	1	4	X	X	X	X	X	X	X	X
Benzotrifluoride	4	4	1	1	1	4	X	X	X	X	X	X	X	X
Benzoyl Chloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Benzoyl Peroxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzoylsulfonic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzyl Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Benzyl Alcohol	4	4	2	1	2	2	4	4	4	2	4	2	2	2
Benzyl Amine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Benzyl Benzoate	4	4	4	1	2	4	4	4	4	2	4	4	1	4
Benzyl Bromide	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Benzyl Butyl Phthalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Benzyl Chloride	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Benzyl Phenol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Benzyl Salicylate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Beryllium Chloride	1	1	1	1	1	3	3	3	3	1	3	3	3	3
Beryllium Fluoride	1	1	1	1	1	3	3	3	3	1	3	3	3	3
Beryllium Oxide	1	1	1	1	1	3	3	3	3	1	3	3	3	3
Beryllium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Bismuth Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Bismuth Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Bismuth Oxychloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Black Liquor	2	X	1	1	1	1	X	X	X	X	X	X	X	X
Black Point 77	1	1	1	1	1	3	3	3	3	1	3	3	3	3
Blast Furnace Gas	4	4	4	1	2	4	4	4	4	4	4	4	2	1
Bleach Liquor	3	3	1	1	1	2	3	4	4	1	3	1	2	2
Bleach Solutions	X	X	1	1	X	X	X	X	X	X	X	X	X	X
Borax	2	2	1	1	1	4	2	2	1	1	2	4	2	2
Borax Solutions	X	X	1	1	X	X	X	X	X	X	X	X	X	X
Bordeaux Mixture	2	2	1	1	1	2	2	4	4	1	2	1	2	2
Boric Acid	1	1	1	1	1	1	1	4	1	1	1	1	1	1
Boric Oxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Borneol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Bornyl Acetate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Bornyl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Bornyl Formate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Boron Fluids (HEF)	2	2	4	1	2	4	4	4	4	4	4	4	2	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Boron Hydride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Phosphate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Tribromide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Trichloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Trifluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Boron Trioxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brake Fluid DOT3 (Glycol Type)	3	3	1	4	2	2	1	X	4	2	X	2	4	3
Bray GG-130	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Brayco 719-R (VV-H-910)	3	3	1	4	2	2	X	4	4	2	2	2	2	2
Brayco 885 (MIL-L-6085A)	2	2	4	1	2	4	4	2	1	4	4	4	2	4
Brayco 910	2	2	1	4	2	2	2	3	3	1	1	1	4	4
Bret 710	2	2	1	4	2	2	2	3	3	1	1	1	4	4
Brine	1	1	1	1	X	X	X	X	X	X	X	X	X	X
Brine (Seawater)	1	1	3	1	1	4	X	X	X	X	X	X	X	X
Bromic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Bromine	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Bromine Pentafluoride	4	4	4	4	3	4	4	4	4	4	4	4	4	4
Bromine Trifluoride	4	4	4	4	3	4	4	4	4	4	4	4	4	4
Bromine Water	4	4	2	1	3	4	4	4	4	4	4	1	2	4
Bromobenzene	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Bromobenzene Cyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Bromochloro Trifluoroethane (Halothane)	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Bromoform	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Bromomethane (Methyl Bromide)	2	2	4	1	1	4	4	3	X	4	4	4	1	X
Bromotrifluoroethylene (BFE)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Bromotrifluoromethane (F-13B1)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brucine Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Bunker Oil	1	1	4	1	2	4	4	1	2	4	4	4	1	2
Bunker's "C" (Fuel Oil)	1	X	X	1	X	X	X	X	X	X	X	X	X	X
Butadiene (Monomer)	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Butane	1	1	4	1	2	1	3	1	1	4	4	2	3	4
Butane, 2, 2-Dimethyl	1	1	4	1	2	2	3	1	4	4	4	2	3	4
Butane, 2, 3-Dimethyl	1	1	4	1	2	2	3	1	4	4	4	2	3	4
Butanedial	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butanol (Butyl Alcohol)	1	1	2	1	1	1	1	4	4	2	1	1	1	2
Butene 2-Ethyl (1-Butene 2-Ethyl)	1	1	4	1	1	4	4	1	4	4	4	4	3	4
Butter-Animal Fat	1	1	1	1	1	2	4	1	1	2	4	2	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Butyl Acetate or n-Butyl Acetate	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Butyl Acetyl Ricinoleate	2	2	1	1	1	2	4	X	4	1	4	2	2	X
Butyl Acrylate	4	4	1	4	4	4	4	4	X	4	4	4	4	2
Butyl Alcohol	1	1	2	1	1	1	1	4	4	2	1	1	1	2
Butyl Alcohol (Secondary)	2	2	2	1	1	2	2	4	4	2	2	2	2	2
Butyl Alcohol (Tertiary)	2	2	2	1	1	2	2	4	4	2	2	2	2	2
Butyl Amine or N-Butyl Amine	1	1	3	4	3	4	4	4	4	4	4	4	4	4
Butyl Benzoate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Benzoate or n-Butyl Benzoate	4	4	1	1	X	4	2	4	X	1	4	4	1	X
Butyl Benzolate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Butyl Butyrate or n-Butyl Butyrate	4	4	1	1	X	4	4	4	X	1	4	4	1	X
Butyl Carbitol	4	4	1	3	2	3	4	4	X	1	4	2	4	4
Butyl Cellosolve	3	3	2	4	2	3	4	4	4	2	4	4	4	X
Butyl Cellosolve Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Cellosolve Adipate	4	4	2	2	2	4	4	4	4	2	4	4	2	2
Butyl Chloride	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Butyl Ether or n-Butyl Ether	3	3	3	4	X	4	4	4	3	3	4	4	3	4
Butyl Glycolate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Lactate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Laurate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Mercaptan (Tertiary)	4	4	4	1	X	4	4	4	4	4	4	4	X	4
Butyl Methacrylate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Oleate	4	4	2	1	2	4	4	X	X	2	4	4	2	X
Butyl Oxalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyl Stearate	2	2	4	1	2	4	4	X	X	4	4	4	2	X
Butylbenzoic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Butylene	2	2	4	1	2	3	4	4	4	4	4	4	2	4
Butyraldehyde	4	4	2	4	2	4	4	4	4	2	4	4	4	4
Butyric Acid	4	4	2	2	1	4	4	4	X	2	X	4	X	X
Butyric Anhydride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyrolactone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Butyryl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Cadmium Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cadmium Cyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cadmium Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cadmium Oxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cadmium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Cadmium Sulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcine Liquors	1	1	1	1	1	X	X	4	4	1	X	X	1	X
Calcium Acetate	2	2	1	4	2	2	4	4	4	1	1	2	4	4
Calcium Arsenate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Benzoate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Calcium Bicarbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Bisulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Bisulfite	2	2	1	2	1	2	2	3	3	1	4	1	3	3
Calcium Bromide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Carbide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Carbonate	1	1	1	1	1	1	1	3	3	1	1	1	1	1
Calcium Chlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Chromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Cyanamide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Cyanide	1	1	1	X	1	1	1	X	X	1	1	1	X	1
Calcium Fluoride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Gluconate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Hydride	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Hydrosulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Hydroxide	1	1	1	1	1	1	1	4	2	1	1	1	1	1
Calcium Hypochlorite	2	2	1	1	1	2	2	4	4	1	2	1	2	2
Calcium Hypophosphite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Lactate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Naphthenate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Nitrate	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Calcium Oxalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Oxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Calcium Permanganate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Peroxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Phenolsulfonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Phosphate	1	1	1	1	1	2	1	1	1	1	1	1	X	1
Calcium Phosphate Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Propionate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Pyridine Sulfonate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Calcium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Calcium Silicate	1	1	1	1	1	1	1	X	X	1	1	1	X	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Calcium Stearate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Calcium Sulfamate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Calcium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Sulfide	1	1	1	1	1	1	2	4	1	1	2	1	1	1
Calcium Sulfite	1	1	1	1	1	1	2	4	1	1	2	1	1	1
Calcium Thiocyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Calcium Thiosulfate	2	2	1	1	1	1	2	4	1	1	2	1	1	1
Calcium Tungstate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Caliche Liquors	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Camphene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Camphor	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Camphoric Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Cane Sugar Liquors	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Capric Acid	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Caproic Acid	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Caproic Aldehyde	X	X	2	4	3	X	X	4	4	2	2	X	4	2
Caprolactam	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Capronaldehyde	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Carbamate	3	3	2	1	1	2	4	4	4	2	4	2	1	X
Carbazole	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Carbitol	2	2	2	2	1	2	2	4	4	2	2	2	2	2
Carbolic Acid (Phenol)	4	4	2	1	1	4	4	4	3	2	4	4	1	4
Carbon Bisulfide	4	4	4	1	2	4	4	3	X	4	4	4	1	4
Carbon Dioxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carbon Dioxide (Explosive Decompression Use)	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Carbon Disulfide	4	4	4	1	2	4	4	3	X	4	4	4	1	4
Carbon Fluorides	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Carbon Monoxide	1	1	1	1	1	2	2	X	1	1	2	2	2	1
Carbon Tetrabromide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Carbon Tetrachloride	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Carbon Tetrafluoride	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Carbonic Acid	2	2	1	1	1	1	2	1	1	1	1	1	1	1
Casein	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Castor Oil	1	1	2	1	1	1	1	1	1	2	1	1	1	1
Caustic Lime	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Caustic Potash	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Caustic Soda (Sodium Hydroxide)	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Cellosolve	4	4	2	4	3	4	4	4	4	2	4	4	4	4
Cellosolve Butyl	4	4	2	4	2	4	4	4	4	2	4	4	4	4
Cellosolve, Acetate	4	4	2	4	2	4	4	4	4	2	4	4	4	4
Cellugard	1	1	1	1	1	1	1	3	4	1	1	1	1	1
Cellulose Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cellulose Acetate Butyrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cellulose Ether	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cellulose Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cellulose Tripropionate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cellutherm 2505A	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Cerium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cerous Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cerous Fluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cerous Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cetane (Hexadecane)	1	1	4	1	2	2	4	1	4	4	4	2	3	4
Cetyl Alcohol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Chaulmoogric Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
China Wood Oil (Tung Oil)	1	1	4	1	2	2	4	X	3	3	4	3	2	4
Chloral	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chloramine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chloranthraquinone	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlordane	2	2	4	1	2	3	4	X	X	4	4	3	2	4
Chlorextol	2	2	4	1	2	2	4	2	4	4	4	4	2	4
Chloric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chlorinated Solvents, Dry	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Chlorinated Solvents, Wet	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Chlorine Dioxide	4	4	3	1	2	4	4	4	4	3	4	3	2	X
Chlorine Dioxide, 8% Cl as NaClO2 in solution	4	4	4	1	2	4	4	4	4	4	4	4	2	X
Chlorine Trifluoride	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Chlorine Water	3	3	2	1	1	4	X	X	X	X	X	X	X	X
Chlorine, Dry	4	4	X	2	2	2	4	4	X	X	4	2	X	4
Chlorine, Wet	4	4	X	2	2	4	4	4	X	X	4	2	X	4
Chloro 1-Nitro Ethane (1-Chloro 1-Nitro Ethane)	4	4	4	4	3	4	4	4	4	4	4	4	4	4
Chloro Oxyfluorides	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chloro Xylenols	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chloroacetaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chloroacetic Acid	4	4	2	4	2	4	4	4	4	2	4	1	4	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Chloroacetone	4	4	1	4	2	4	4	4	4	2	4	4	4	4
Chloroacetyl Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chloroamino Benzoic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chloroaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chlorobenzaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chlorobenzene	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Chlorobenzene (Mono)	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Chlorobenzene Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorobenzene Trifluoride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorobenzochloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorobenzotrifluoride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorobromo Methane	4	4	2	1	1	4	4	4	4	2	4	4	2	4
Chlorobromopropane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorobutadiene	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Chlorobutane (Butyl Chloride)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Chlorododecane	4	4	4	1	2	4	4	4	4	4	4	4	1	4
Chloroethane	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Chloroethane Sulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chloroethylbenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chloroform	4	4	4	1	2	4	4	4	4	4	4	4	4	4
Chlorohydrin	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chloronaphthalene or o-Chloronaphthalene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Chloronitrobenzene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chlorophenol or o-Chlorophenol	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Chloropicrin	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chloroprene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorosilanes	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chlorosulfonic Acid	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Chlorotoluene	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Chlorotoluene Sulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Chlorotoluidine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chlorotrifluoroethylene (CTFE)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chlorox	2	2	2	1	1	2	4	4	4	2	4	2	1	X
Chloroxylols	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cholesterol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Chrome Alum	1	1	1	1	1	1	1	4	X	1	1	1	X	1
Chrome Plating Solutions	4	4	2	1	1	4	4	4	4	2	4	4	2	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Chromic Acid	4	4	2	1	X	4	4	4	3	4	4	4	2	X
Chromic Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Fluorides	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Hydroxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Nitrates	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Oxide	4	4	2	1	1	4	X	X	X	X	X	X	X	X
Chromic Phosphate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromic Sulfate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Chromium Potassium Sulfate (Alum)	2	X	2	1	2	X	X	X	X	X	X	X	X	X
Chromyl Chlorides	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cinnamic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Cinnamic Alcohol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Cinnamic Aldehyde	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Circo Light Process Oil	1	1	4	1	2	2	4	1	1	4	4	2	1	4
Citric Acid	1	1	1	1	1	1	1	X	1	1	1	1	1	1
Clorox	2	X	2	1	X	X	X	X	X	X	X	X	X	X
Coal Tar	1	X	X	1	X	X	X	X	X	X	X	X	X	X
Cobalt Chloride	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Cobalt Chloride, 2N	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Cobaltous Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Cobaltous Bromide	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Cobaltous Linoleate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cobaltous Naphthenate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cobaltous Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Coconut Oil	1	1	3	1	2	3	4	1	3	3	4	3	1	1
Cod Liver Oil	1	1	1	1	1	2	4	1	1	1	4	2	1	2
Codeine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Coffee	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Coke Oven Gas	4	4	4	1	2	4	4	4	4	4	4	4	2	2
Coliche Liquors	2	2	2	X	2	1	2	X	X	2	1	X	X	X
Convelex 10	4	4	X	X	X	4	4	X	2	4	4	4	X	4
Coolanol 20 25R 35R 40& 45A (Monsanto)	1	1	3	1	2	2	4	4	1	4	4	2	1	4
Copper Acetate	2	2	1	4	2	2	4	4	4	1	1	2	4	4
Copper Ammonium Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Copper Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Copper Chloride	1	1	1	1	1	2	1	1	1	1	1	2	1	1
Copper Cyanide	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Copper Gluconate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Copper Naphthenate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Copper Nitrate	2	X	2	1	2	X	X	X	X	X	X	X	X	X
Copper Oxide	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Copper Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Copper Sulfate	1	1	1	1	1	1	2	4	1	2	2	1	1	1
Copper Sulfate 10%	1	1	1	1	1	1	2	4	2	2	2	1	1	1
Copper Sulfate 50%	1	1	1	1	1	1	2	4	3	2	1	1	1	1
Corn Oil	1	1	3	1	2	3	4	1	1	3	4	2	1	1
Cottonseed Oil	1	1	3	1	2	3	4	1	1	3	4	2	2	1
Creosote, Coal Tar	1	1	4	1	2	2	4	1	3	4	4	4	1	4
Creosote, Wood	1	1	4	1	2	2	4	1	3	4	4	4	1	4
Cresol (Methyl Phenol)	X	X	X	1	X	X	X	X	X	X	X	X	X	X
Cresols	4	4	4	2	2	4	4	4	X	4	4	4	X	4
Cresylic Acid	4	4	4	1	2	4	4	4	4	4	4	4	X	4
Crotonaldehyde	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Crotonic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Crude Oil	2	2	4	1	2	4	4	1	X	4	4	4	2	4
Cumaldehyde	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Cumene	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Cumene Hydroperoxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cupric Sulfate	2	X	2	1	2	X	X	X	X	X	X	X	X	X
Cutting Oil	1	1	4	1	2	2	4	1	1	4	4	2	1	4
Cyanamide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanides	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanogen Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanogen Gas	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanohydrin	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyanuric Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyclohexane	1	1	4	1	2	3	4	2	1	4	4	4	1	4
Cyclohexanol	1	1	4	1	2	2	4	X	X	4	4	2	1	4
Cyclohexanone	4	4	2	4	3	4	4	4	4	2	4	4	4	4
Cyclohexene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Cyclohexylamine	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Cyclohexylamine Carbonate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cyclohexylamine Laurate	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Cyclopentadiene	2	2	4	1	X	4	4	4	3	4	4	4	2	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Cyclopentane	1	1	4	1	2	3	4	2	1	4	4	4	1	4
Cyclopolyolefins	1	1	4	1	2	3	4	2	1	4	4	4	1	4
Cymene or p-Cymene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
DDT (Dichlorodiphenyltrichloroethane)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
DI Water	2	X	1	2	X	1	1	4	4	1	1	1	1	2
D-Limonene Solvent	2	2	4	1	2	4	4	3	2	4	4	4	4	1
Decalin	4	4	4	1	2	4	4	X	X	4	4	4	1	4
Decane	1	1	4	1	2	3	4	1	2	4	4	3	1	2
Delco Brake Fluid	3	3	1	4	2	2	1	X	X	2	X	2	4	3
Denatured Alcohol	1	1	1	1	1	1	1	4	4	1	1	1	1	1
Detergent, Water Solution	1	1	1	1	1	2	2	4	4	1	2	2	1	1
Developing Fluids (Photo)	1	1	2	1	1	1	2	X	X	2	1	1	1	1
Dexron	1	1	4	1	2	2	4	1	2	4	4	4	2	4
Dextrin	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Dextro Lactic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dextron	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Dextrose	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Di-Tert-Butyl Peroxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Di-ester Lubricant MIL-L-7808	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Di-ester Synthetic Lubricants	2	2	4	1	2	4	4	2	4	4	4	4	2	4
Diacetone	4	4	1	4	2	4	4	4	4	1	4	4	4	4
Diacetone Alcohol	4	4	1	4	2	2	4	4	4	1	4	2	4	4
Dialkyl Sulfates	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Diallyl Ether	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diallyl Phthalate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diamylamine	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Diazinon	3	3	4	2	2	3	4	X	X	4	4	3	2	4
Dibenzyl (sym-Diphenylethane)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dibenzyl Ether	4	4	2	4	2	4	4	X	2	2	4	4	X	X
Dibenzyl Sebacate	4	4	2	2	2	4	4	4	2	2	4	4	3	3
Diborane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dibromoethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dibromoethyl Benzene	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Dibutyl Cellosolve Adipate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dibutyl Ether	4	4	3	3	3	4	4	3	2	3	4	4	3	4
Dibutyl Methylene-dithio Glycolate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dibutyl Phthalate	4	4	2	3	3	4	4	4	3	3	4	4	3	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Dibutyl Sebacate	4	4	2	2	2	4	4	4	4	2	4	4	2	2
Dibutyl Thioglycolate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dibutyl Thiourea	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dibutylamine	4	4	1	4	4	3	4	4	4	4	4	4	4	3
Dichloroacetic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichloroaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dichlorobenzene or o-Dichlorobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Dichlorobenzene or p-Dichlorobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Dichlorobutane	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Dichlorobutene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichlorodiphenyl-Dichloroethane (DDD)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichloroethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichloroethylene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichlorohydrin	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dichloroisopropyl Ether	4	4	3	3	3	4	4	3	2	4	4	4	3	4
Dichloromethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichlorophenol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichlorophenoxyacetic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichloropropane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichloropropene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dichlorosilane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dicyclohexylamine	1	1	4	4	4	4	4	4	4	4	4	4	4	2
Dicyclohexylammonium Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dieldrin	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Diesel Oil	1	1	4	1	2	3	4	1	3	4	4	3	1	4
Diethanolamine (DEA)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Diethyl Benzene	X	X	X	1	X	X	X	X	X	X	X	X	X	X
Diethyl Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Diethyl Ether	4	4	4	4	4	3	4	3	1	4	4	4	3	4
Diethyl Phthalate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Diethyl Sebacate	2	2	2	2	2	4	4	4	4	2	4	4	2	2
Diethyl Sulfate	4	X	1	3	2	4	X	X	X	X	X	X	X	2
Diethylamine	2	X	1	4	X	1	1	4	4	1	1	1	1	2
Diethylaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Diethylene Glycol	1	1	1	1	1	1	1	2	4	1	1	1	1	2
Diethylenetriamine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Difluorodibromomethane	4	4	2	X	2	4	4	4	4	2	4	4	X	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Difluoroethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Difluoromonochloroethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Diglycol Chloroformate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Diglycolic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dihydroxydiphenylsulfone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Diisobutyl Ketone	X	X	1	X	1	X	X	X	X	1	X	X	X	X
Diisobutylcarbinol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Diisobutylene	2	2	4	1	2	4	4	4	4	4	4	4	3	4
Diisooctyl Sebacate	3	3	3	2	2	4	4	4	4	4	4	4	3	3
Diisopropyl Ether (DIPE)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diisopropyl Ketone	4	4	1	4	2	4	4	4	4	1	4	4	4	4
Diisopropylbenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Diisopropylidene Acetone	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dimethyl Acetamide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dimethyl Aniline (Xylidine)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dimethyl Disulfide (DMDS)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Dimethyl Ether	1	X	2	2	4	3	X	X	X	X	X	X	X	X
Dimethyl Formaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dimethyl Formamide (DMF)	2	2	1	4	2	3	4	4	4	2	4	4	4	2
Dimethyl Hydrazine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dimethyl Phenyl Carbinol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dimethyl Phenyl Methanol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dimethyl Phthalate	4	4	2	2	2	4	4	4	X	2	4	4	2	X
Dimethyl Sulfoxide (DMSO)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Dimethyl Terephthalate (DMT)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dimethylamine (DMA)	2	2	1	4	2	2	2	4	3	2	2	3	4	2
Dinitrochlorobenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dinitrogen Tetroxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dinitrotoluene (DNT)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Diocetyl Phthalate	4	4	2	2	2	4	4	4	4	2	4	4	2	3
Diocetyl Sebacate	4	4	2	2	2	4	4	4	2	2	4	4	3	3
Diocetylamine	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Dioxane	4	4	2	4	3	4	4	4	4	2	4	4	4	4
Dioxolane	4	4	2	4	3	4	4	4	4	3	4	4	4	4
Dipentene	2	2	4	1	2	4	4	4	4	4	4	4	2	4
Diphenyl	4	4	4	1	2	4	4	4	4	4	4	4	2	4
Diphenyl Oxides	4	4	4	1	2	4	4	4	4	4	4	4	2	3

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Diphenylamine (DPA)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Diphenylene Oxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Diphenylpropane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Disilane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dodecylbenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Dow Chemical 50-4	X	X	1	4	2	2	1	X	X	2	X	2	4	X
Dow Chemical ET378	4	4	X	X	X	4	4	3	2	4	4	4	X	4
Dow Chemical ET588	3	3	1	4	2	2	1	X	X	2	X	2	4	X
Dow Corning -11	2	2	1	1	1	1	1	1	1	1	1	1	1	2
Dow Corning -1265 Fluorosilicone Fluid	2	2	1	1	1	1	1	1	1	1	1	1	3	1
Dow Corning -200	2	2	1	1	1	1	1	1	1	1	1	1	2	3
Dow Corning -3	2	2	1	1	X	1	1	1	1	1	1	1	1	2
Dow Corning -33	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -4	2	2	1	1	X	1	1	1	1	1	1	1	1	2
Dow Corning -44	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -5	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -510	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -55	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -550	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -704	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -705	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning -710	2	2	1	1	X	1	1	1	1	1	1	1	2	3
Dow Corning 1208, 4050, 6620, F-60, xF-60	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Dow Corning 220	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Dow Corning F-61	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Dow Guard	1	1	1	1	X	1	1	3	3	1	1	1	1	1
Dowtherm, 209	3	3	1	4	X	2	X	X	X	2	X	X	3	3
Dowtherm, A	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Dowtherm, E	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Drinking Water	1	1	1	1	X	2	1	4	4	1	1	1	1	1
Dry Cleaning Fluids	3	3	4	1	X	4	4	4	4	4	4	4	2	4
Elco 28-EP lubricant	1	1	4	1	X	3	4	1	1	4	4	4	1	2
Epichlorohydrin	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Epoxy Resins	X	X	1	4	X	1	X	X	X	1	X	X	X	X
Erucic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Esam-6 Fluid	X	X	1	4	X	2	1	X	X	2	X	2	4	X
Esso XP90-EP lubricant	1	1	4	1	X	2	4	1	1	4	4	2	1	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Esstic 42, 43	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Ethane	1	1	4	1	X	2	4	1	3	4	4	2	3	4
Ethanol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ethanol Amine	2	2	1	4	X	2	2	4	3	2	2	3	4	2
Ethers	4	4	3	3	X	4	4	3	2	4	4	4	3	4
Ethoxyethyl Acetate (EGMEEA)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ethyl Acetate-Organic Ester	4	4	2	4	X	4	4	4	4	2	4	4	4	2
Ethyl Acetoacetate	4	4	2	4	X	4	3	4	4	2	3	4	4	2
Ethyl Acrylate	4	4	2	4	X	4	4	4	4	2	4	4	4	2
Ethyl Alcohol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ethyl Ammonium Dichloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ethyl Benzene	4	4	4	1	X	4	4	4	4	4	4	4	1	4
Ethyl Benzoate	4	4	4	1	X	4	4	4	4	4	4	4	1	4
Ethyl Bromide	2	2	4	1	X	4	X	X	X	4	4	4	1	X
Ethyl Cellosolve	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Ethyl Cellulose	2	2	2	4	X	2	2	4	2	2	2	2	4	2
Ethyl Chloride	1	1	3	1	X	4	4	3	2	4	4	4	1	4
Ethyl Chlorocarbonate	4	4	2	1	X	4	4	4	4	4	4	4	2	4
Ethyl Chloroformate	4	4	2	4	X	4	4	4	4	3	4	4	4	4
Ethyl Ether	3	3	3	4	X	4	4	4	2	3	4	4	3	4
Ethyl Formate	4	4	2	1	X	2	4	X	X	2	4	2	1	X
Ethyl Hexanol	1	1	1	1	X	1	1	4	4	1	1	1	1	2
Ethyl Lactate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ethyl Mercaptan	4	4	X	2	X	3	4	X	X	4	4	3	X	3
Ethyl Nitrite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ethyl Oxalate	4	4	1	2	X	4	4	4	X	4	4	4	2	4
Ethyl Pentachlorobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Ethyl Pyridine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Ethyl Silicate	1	1	1	1	X	1	2	X	X	1	2	2	1	X
Ethyl Stearate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Ethyl Sulfate	X	X	1	4	1	X	X	X	X	X	X	X	X	X
Ethyl Tertiary Butyl Ether	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ethyl Valerate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Ethylacrylic Acid	4	4	2	X	X	2	4	4	4	2	4	4	4	4
Ethylamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ethylcyclopentane	1	1	4	1	X	3	4	2	1	4	4	4	1	4
Ethylene	3	2	4	2	X	4	4	4	4	4	4	4	2	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Ethylene Chloride	4	4	4	2	X	4	4	4	4	4	4	4	2	4
Ethylene Chlorohydrin	4	4	2	1	X	2	2	4	4	2	2	2	2	3
Ethylene Cyanohydrin	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Ethylene Diamine	1	1	1	4	X	1	2	4	4	1	1	2	4	1
Ethylene Dibromide	4	4	3	1	X	4	4	4	4	3	4	4	3	4
Ethylene Dichloride	4	4	3	1	X	4	4	4	4	3	4	4	3	4
Ethylene Glycol	1	1	1	1	X	1	1	4	2	1	1	1	1	1
Ethylene Hydrochloride	4	4	3	1	X	4	4	4	4	3	4	4	3	4
Ethylene Oxide	4	4	3	4	X	4	4	4	4	3	4	4	4	4
Ethylene Oxide, (12%) and Freon 12 (80%)	3	3	2	4	X	4	4	4	4	2	4	4	4	4
Ethylene Trichloride	4	4	3	1	X	4	4	4	4	3	4	4	3	4
Ethylmorpholene Stannous Octoate (50/50 mix)	4	4	2	4	X	X	4	X	X	2	X	X	X	X
Ethylmorpholine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Ethylsulfuric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
F-60 Fluid (Dow Corning)	1	1	1	1	X	1	1	1	1	1	1	1	1	4
F-61 Fluid (Dow Corning)	1	1	1	1	X	1	1	1	1	1	1	1	1	4
FC-43 Heptacosofluorotri-butylamine	1	1	1	1	X	1	4	X	X	1	X	1	1	1
FC75 & FC77 (Fluorocarbon)	1	1	1	2	X	1	4	X	X	1	X	1	2	1
Fatty Acids	2	2	3	1	X	2	4	X	X	3	4	2	X	3
Ferric Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferric Ammonium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferric Chloride	1	1	1	1	X	2	1	1	1	1	1	2	1	2
Ferric Ferrocyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferric Hydroxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferric Nitrate	1	1	1	1	X	1	1	1	1	1	1	1	1	2
Ferric Persulfate	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Ferric Sulfate	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Ferrous Ammonium Citrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferrous Ammonium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferrous Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferrous Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Ferrous Iodide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferrous Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ferrous Tartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Fish Oil	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Fisher Reagent	X	X	2	X	X	X	X	X	X	X	X	X	X	X
Fluorine (Gas)	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Fluorine (Liquid)	4	4	4	2	X	X	X	X	X	X	X	X	X	X
Fluorobenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Fluoroboric Acid	1	X	1	X	X	X	X	X	X	X	X	X	X	X
Fluorocarbon Oils	X	X	1	X	X	X	X	X	X	X	X	X	X	X
Fluoroform (Trifluoromethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluorolube	1	1	1	2	X	1	4	X	X	1	X	1	2	1
Fluorophosphoric Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Fluorosilicic Acid	1	1	2	2	1	1	X	X	X	X	X	X	X	X
Fluorosulfonic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Formaldehyde	3	3	2	4	X	3	3	4	4	2	2	2	4	2
Formamide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Formic Acid	X	X	1	4	3	1	X	X	X	X	X	X	X	X
Freon, 11	4	4	4	2	X	4	4	4	X	4	4	1	2	4
Freon, 112	2	2	4	1	X	2	4	X	X	4	4	2	X	4
Freon, 113	1	1	4	2	X	1	2	X	1	4	4	1	X	4
Freon, 113 + High and Low Aniline Oil	1	X	X	X	4	X	X	X	X	X	X	X	X	X
Freon, 114	1	1	1	1	X	1	1	X	X	1	1	X	X	4
Freon, 114B2	2	2	4	2	X	2	4	X	X	4	4	1	X	4
Freon, 115, 116	1	1	1	2	X	1	1	X	X	1	1	X	X	X
Freon, 12	2	2	3	3	X	1	1	X	1	3	2	1	3	4
Freon, 12 and ASTM Oil #2(50/50 Mixture)	2	2	4	1	X	3	4	X	X	4	4	2	2	4
Freon, 12 and Suniso 4G(50/50 Mixture)	2	2	4	1	X	3	4	X	X	4	4	2	2	4
Freon, 123 (Dichlorotrifluoroethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 124 (Chlorotetrafluoroethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 125 (Pentafluoroethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 13	1	1	1	1	X	1	1	X	X	1	1	1	4	4
Freon, 134a (Tetrafluoroethane)	X	1	1	X	X	1	X	X	X	X	X	X	X	X
Freon, 13B1	1	1	1	1	X	1	1	X	X	1	1	1	2	4
Freon, 14	1	1	1	1	X	1	1	X	1	1	1	1	X	4
Freon, 141b (Dichlorofluoroethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 142b	2	2	4	2	4	1	X	X	X	X	X	X	X	X
Freon, 152a (Difluoroethane)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Freon, 21	4	4	4	4	X	3	4	X	X	4	4	4	X	4
Freon, 218	1	X	1	1	X	X	X	X	X	X	X	X	X	X
Freon, 22	4	4	3	4	X	1	1	2	4	3	1	1	4	4
Freon, 22 and ASTM Oil #2(50/50 Mixture)	4	4	4	2	X	2	4	2	X	4	4	X	2	4
Freon, 23 (Fluoroform)	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Freon, 31	4	4	1	4	X	1	2	X	X	1	2	2	X	X
Freon, 32	1	1	1	4	X	1	1	X	X	1	1	1	X	X
Freon, 502	2	2	1	2	X	1	1	X	X	1	1	X	X	X
Freon, BF	2	2	4	1	X	2	4	X	X	4	4	2	X	4
Freon, C316	1	X	1	1	X	X	X	X	X	X	X	X	X	X
Freon, C318	1	1	1	2	X	1	1	X	X	1	1	1	X	X
Freon, K-142b	1	1	1	4	X	1	1	X	X	1	2	1	X	X
Freon, K-152a	1	1	1	4	X	1	1	X	X	1	1	4	X	X
Freon, MF	2	2	4	2	X	4	4	X	3	4	4	1	X	4
Freon, PCA	1	1	4	2	X	1	2	X	1	4	4	1	X	4
Freon, T-P35	1	X	1	1	X	X	X	X	X	X	X	X	X	X
Freon, T-WD602	2	X	2	1	X	X	X	X	X	X	X	X	X	X
Freon, TA	1	X	2	3	X	X	X	X	X	X	X	X	X	X
Freon, TC	1	X	2	1	X	X	X	X	X	X	X	X	X	X
Freon, TF	1	1	4	2	X	1	2	X	1	4	4	1	X	4
Freon, TMC	2	X	3	1	X	X	X	X	X	X	X	X	X	X
Fuel Oil, #6	2	2	4	1	X	4	4	1	2	4	4	4	1	1
Fuel Oil, 1, and 2	1	1	4	1	X	2	4	1	2	4	4	3	1	4
Fuel Oil, Acidic	1	1	4	1	X	2	4	1	2	4	4	4	1	1
Fumaric Acid	1	1	2	1	X	2	2	4	X	4	3	2	1	2
Fuming Sulphuric Acid (20/25% Oleum)	4	4	4	1	X	4	4	4	4	4	4	4	X	4
Furaldehyde	4	4	2	4	4	4	X	X	X	X	X	X	X	X
Furan (Furfuran)	4	4	3	1	X	4	4	4	X	4	4	4	X	X
Furfural (Furfuraldehyde)	4	4	2	4	X	4	4	4	3	2	4	3	X	4
Furfuraldehyde	4	4	2	4	X	4	4	4	3	2	4	3	X	4
Furfuryl Alcohol	4	4	2	X	X	4	4	4	4	2	4	4	4	4
Furoic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Furyl Carbinol	4	4	2	X	X	4	4	4	4	2	4	4	4	4
Fyrquel 150 220 300 550	4	4	1	1	X	4	4	4	4	1	4	4	2	1
Fyrquel 90, 100, 500	4	4	1	1	1	X	X	X	X	X	X	X	X	X
Fyrquel a60	4	4	2	4	2	4	X	X	X	X	X	X	X	X
Gallic Acid	2	2	2	1	X	2	2	4	4	2	1	2	1	X
Gasahol	3	4	4	1	4	4	4	4	4	4	4	4	4	1
Gasoline	1	1	4	1	X	4	4	4	2	4	4	4	1	4
Gelatin	1	1	1	1	X	1	1	4	4	1	1	1	1	1
Germane (Germanium Tetrahydride)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Girling Brake Fluid	3	3	1	4	X	2	1	X	X	2	X	2	4	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Glauber's Salt	4	4	2	1	X	2	4	4	X	2	2	2	1	X
Gluconic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glucose	1	1	1	1	X	1	1	X	4	1	1	1	1	1
Glue	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Glutamic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycerine (Glycerol)	1	1	1	1	X	1	1	4	4	1	1	1	1	1
Glycerol Dichlorohydrin	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycerol Monochlorohydrin	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycerol Triacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycerophosphoric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glyceryl Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycidol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycol Monoether	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Glycolic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Glycols	1	1	1	1	X	1	1	4	4	1	1	1	1	1
Glyoxylic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Grease Petroleum Base	1	1	4	1	X	3	4	1	1	4	4	4	1	4
Green Sulfate Liquor	2	2	1	1	X	2	2	4	4	1	2	2	2	X
HEF-2 (High Energy Fuel)	2	2	4	1	X	4	4	4	4	4	4	4	2	4
Halothane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Halowax Oil	4	4	4	1	X	4	4	X	X	4	4	4	1	4
Hannifin Lube A	1	1	4	1	X	1	2	1	1	4	4	1	1	2
Heavy Water	1	1	1	X	X	2	1	4	4	1	1	1	1	1
Helium	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Heptachlor	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Heptachlorobutene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Heptaldehyde (Heptanal)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Heptane or n-Heptane	1	1	4	1	X	2	4	1	2	4	4	2	3	4
Heptanoic Acid	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Hexachloroacetone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hexachlorobutadiene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Hexachlorobutene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Hexachloroethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Hexaethyl Tetraphosphate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexafluoroethane (F-116)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexafluoroxylene	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexaldehyde or n-Hexaldehyde	4	4	1	4	X	1	4	X	2	2	4	3	4	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Hexamethyldisilazane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexamethylene (Cyclohexane)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Hexamethylene Diammonium Adipate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Hexamethylenediamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hexamethylenetetramine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hexane or n-Hexane	1	1	4	1	X	2	4	1	2	4	4	2	3	4
Hexene-1 or n-Hexene-1	2	2	4	1	X	2	4	1	2	4	4	2	4	4
Hexone (Methyl Isobutyl Ketone)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hexyl Acetate	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Hexyl Alcohol	1	1	3	1	X	2	1	4	4	3	1	2	2	2
Hexylene Glycol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hexylresorcinol	2	2	4	1	X	4	4	4	3	4	4	4	2	X
HiLo MS #1	4	4	1	4	X	4	4	4	4	2	4	4	3	3
High Viscosity Lubricant, H2	1	1	1	1	X	2	1	4	4	1	X	X	2	1
High Viscosity Lubricant, U4	1	1	1	1	X	2	1	4	4	1	X	X	2	1
Houghto-Safe 1010 phosphate ester	4	4	1	1	X	4	4	4	X	1	4	4	2	3
Houghto-Safe 1055 phosphate ester	4	4	1	1	X	4	4	4	X	1	4	4	2	3
Houghto-Safe 1120 phosphate ester	4	4	2	1	X	4	4	4	4	1	4	4	2	3
Houghto-Safe 271 (Water & Glycol Base)	1	1	1	2	X	2	1	4	4	2	X	X	2	2
Houghto-Safe 416 & 500 Series	1	1	1	X	X	X	X	X	X	X	X	X	X	X
Houghto-Safe 5040 (Water/Oil emulsion)	1	1	4	1	X	2	4	4	4	4	4	4	2	3
Houghto-Safe 620 Water/Glycol	1	1	1	2	X	2	1	4	4	2	X	X	2	2
Hydraulic Oil (Petroleum Base, Industrial)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Hydraulic Oils (Synthetic Base)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Hydrazine	2	2	1	4	X	2	2	X	4	1	1	2	4	2
Hydrazine (Anhydrous)	4	4	2	4	2	2	1	4	4	2	4	2	4	X
Hydrazine Dihydrochloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hydrazine Hydrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hydriodic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Hydro-Drive MIH-10 (Petroleum Base)	1	1	4	1	X	2	4	1	2	4	4	4	1	2
Hydro-Drive MIH-50 (Petroleum Base)	1	1	4	1	X	2	4	1	2	4	4	4	1	2
Hydroabietyl Alcohol	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrobromic Acid	4	4	1	1	X	4	4	4	4	1	1	1	3	4
Hydrobromic Acid 40%	4	4	1	1	X	2	4	4	4	1	1	1	3	4
Hydrocarbons, Saturated	1	1	4	1	X	2	4	1	2	4	4	3	1	4
Hydrochloric Acid (cold) 37%	4	X	3	1	1	4	X	X	X	X	X	X	X	X
Hydrochloric Acid (hot) 37%	4	X	3	1	X	4	4	4	3	4	4	4	2	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Hydrochloric Acid, 3 Molar to 158°F	2	2	1	1	X	2	3	3	4	1	3	1	3	4
Hydrochloric Acid, Concentrated, Room Temp	2	2	2	1	X	X	X	X	X	X	X	X	X	X
Hydrochloric Acid, Concentrated to 158°F	4	4	4	1	X	4	4	4	4	4	4	X	4	4
Hydrocyanic Acid	2	2	1	1	X	2	2	4	X	1	1	1	2	3
Hydrofluoric Acid (Anhydrous)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrofluoric Acid (conc.) Cold	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrofluoric Acid (conc.) Hot	4	X	4	3	X	X	X	X	X	X	X	X	X	X
Hydrofluorosilicic Acid	2	2	1	1	X	2	2	X	X	1	1	1	4	4
Hydrogen Bromide (Anhydrous)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Chloride (Anhydrous)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Chloride gas	4	X	1	1	1	2	X	X	X	X	X	X	X	X
Hydrogen Cyanide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Fluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Fluoride (Anhydrous)	4	4	1	4	2	X	4	4	X	1	4	X	4	X
Hydrogen Gas, Cold	1	1	1	1	X	1	2	2	1	1	2	1	3	3
Hydrogen Gas, Hot	1	1	1	1	X	1	2	2	1	1	2	1	3	3
Hydrogen Iodide (Anhydrous)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Peroxide	2	2	1	1	X	1	2	4	X	1	2	2	1	1
Hydrogen Peroxide 90%	4	4	3	1	X	4	4	4	X	3	4	3	2	2
Hydrogen Selenide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hydrogen Sulfide Dry Cold	1	1	1	4	X	1	1	4	X	1	1	1	3	3
Hydrogen Sulfide Dry Hot	4	4	1	4	X	2	4	4	X	1	4	3	3	3
Hydrogen Sulfide Wet Cold	4	4	1	4	X	1	4	4	X	1	4	2	3	3
Hydrogen Sulfide Wet Hot	4	4	1	4	X	2	4	4	X	1	4	3	3	3
Hydrolube-Water/Ethylene Glycol	1	1	1	1	X	2	1	4	4	2	X	X	2	2
Hydroxycitronellal	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Hydroquinol	4	4	4	1	X	4	X	X	X	X	X	X	X	X
Hydroquinone	3	3	2	2	X	4	4	4	X	4	2	4	2	X
Hydroxyacetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Hydyne	2	2	1	4	X	2	2	4	X	2	2	X	4	4
Hyjet	4	4	1	4	2	4	X	X	X	X	X	X	X	X
Hyjet IV and IVA	4	4	1	4	X	4	4	4	4	2	4	4	4	4
Hyjet s4	4	X	1	4	2	4	X	X	X	X	X	X	X	X
Hyjet w	4	4	1	4	2	4	X	X	X	X	X	X	X	X
Hypochlorous Acid	4	4	2	1	X	4	4	4	X	2	2	1	X	X
Indole	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Industron FF44	1	1	4	1	X	2	4	1	2	4	4	4	1	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Industron FF48	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Industron FF53	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Industron FF80	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Insulin	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Iodic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Iodine	2	2	2	1	X	4	2	X	X	2	X	2	1	X
Iodine Pentafluoride	4	4	4	4	X	4	4	4	4	4	4	4	4	4
Iodoform	X	X	4	1	X	4	4	4	3	4	4	4	2	X
Isoamyl Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isoamyl Butyrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isoamyl Valerate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isoboreol	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Isobutane	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Isobutyl Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isobutyl Alcohol	2	2	1	1	X	1	2	4	4	1	1	1	2	1
Isobutyl Chloride	4	4	4	1	4	4	X	X	X	X	X	X	X	X
Isobutyl Ether	2	2	4	4	4	3	X	X	X	X	X	X	X	X
Isobutyl Methyl Ketone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isobutyl Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isobutyl n-Butyrate	4	4	1	1	X	4	4	4	X	1	4	4	1	X
Isobutylene	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Isobutyraldehyde	3	2	2	4	4	3	X	X	X	X	X	X	X	X
Isobutyric Acid	1	1	2	4	3	4	X	X	X	X	X	X	X	2
Isocrotyl Chloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Isodecanol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Isododecane	1	1	4	1	X	2	4	4	X	4	4	2	1	4
Isoeugenol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Isooctane	1	1	4	1	X	2	4	1	2	4	4	1	1	4
Isopentane	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Isophorone (Ketone)	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Isopropanol	2	2	1	1	X	2	2	4	4	1	1	1	2	1
Isopropyl Acetate	4	4	2	4	X	4	4	4	4	2	4	4	2	4
Isopropyl Alcohol	2	2	1	1	X	2	2	4	4	1	1	1	2	1
Isopropyl Chloride	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Isopropyl Ether	2	2	4	4	X	3	4	3	2	4	4	3	3	4
Isopropylacetone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Isopropylamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2

1 = Satisfactory, 2 = Fair, 3 = Poor, 4 = Unsatisfactory, X = Unknown

## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
JP-10	3	3	4	1	X	4	4	4	3	4	4	X	1	4
JP-3 (MIL-J-5624)	1	1	4	1	2	4	X	X	X	X	X	X	X	X
JP-4 (MIL-T-5624)	1	1	4	1	X	4	4	2	2	4	4	4	2	4
JP-5 (MIL-T-5624)	1	1	4	1	X	4	4	2	2	4	4	4	2	4
JP-6 (MIL-J-25656)	1	1	4	1	X	4	4	2	2	4	4	4	2	4
JP-8 (MIL-T-83133)	1	1	4	1	X	3	4	1	1	4	4	X	2	4
JP-9 (MIL-F-81912)	3	3	4	1	X	4	4	4	3	4	4	X	2	4
JP-9 -11	4	4	4	1	X	4	4	4	4	4	4	X	2	4
JPX(MIL-F-25604)	1	1	4	4	2	2	X	X	X	X	X	X	X	X
Jet Fuel A	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Kel F Liquids	1	1	1	2	X	X	1	X	X	1	X	1	2	1
Kerosene (RP-1 and JP-1)	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Keystone #87HX-Grease	1	1	4	1	X	4	4	1	1	4	4	4	1	4
LB 135	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Lacquer Solvents	4	4	4	4	X	4	4	4	4	4	4	4	4	4
Lacquers	4	4	4	4	X	4	4	4	4	4	4	4	4	4
Lactams-Amino Acids	4	4	2	4	X	2	4	X	X	2	4	2	4	X
Lactic Acid Cold	1	1	1	1	X	1	1	4	X	1	1	1	1	1
Lactic Acid Hot	4	4	4	1	X	4	4	4	X	4	4	3	2	2
Lactones (Cyclic Esters)	4	4	2	4	X	4	4	4	4	2	4	4	4	2
Lard Animal Fat	1	1	2	1	X	2	4	1	1	2	4	4	1	2
Lauric Acid	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Lavender Oil	2	2	4	1	1	4	X	X	X	X	X	X	X	X
Lead Acetate	2	2	1	4	X	2	4	4	4	1	1	4	4	4
Lead Arsenate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Azide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lead Bromide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Chromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Dioxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Linoleate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Nitrate	1	1	1	X	X	1	1	X	X	1	1	1	1	2
Lead Oxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lead Sulfamate	2	2	1	1	X	1	2	4	X	1	2	1	1	2
Lehigh X1169	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Lehigh X1170	1	1	4	1	X	2	4	1	1	4	4	2	1	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Light Grease	1	1	4	1	1	4	X	X	X	X	X	X	X	X
Ligroin (Petroleum Ether or Benzene)	1	1	4	1	X	2	4	1	2	4	4	3	1	4
Lime Bleach	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Lime Sulfur	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Lindol, Hydraulic Fluid(Phosphate ester type)	4	4	1	2	X	4	4	4	4	1	4	4	3	3
Linoleic Acid	2	2	4	2	X	2	4	X	X	4	4	2	X	2
Linseed Oil	1	1	3	1	X	3	4	1	2	3	4	2	1	1
Liquid Oxygen (LOX)	4	4	4	4	X	4	4	4	4	4	4	4	4	4
Liquid Petroleum Gas (LPG)	1	1	4	1	X	2	4	3	1	4	4	4	3	3
Liquimoly	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Lithium Bromide (Brine)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Citrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Hydroxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Hypochlorite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Nitrite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Perchlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithium Salicylate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lithopone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Lubricating Oils (Crude & Refined)	2	2	4	1	1	3	X	X	X	X	X	X	X	X
Lubricating Oils (Synthetic base)	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Lubricating Oils, Di-ester	2	2	4	1	X	3	4	2	X	4	4	X	2	4
Lubricating Oils, SAE 10, 20, 30, 40, 50	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Lubricating Oils, petroleum base	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Lye Solutions	2	2	1	2	X	2	2	4	4	1	1	1	2	2
MCS 312	4	4	4	1	X	4	4	4	X	4	4	X	1	1
MCS 352	4	4	1	4	X	4	4	4	4	2	4	4	3	3
MCS 463	4	4	1	4	X	4	4	4	4	2	4	4	3	3
MDI (Methylene di-p-phenylene isocyanate)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
MIL-A-6091	2	2	1	1	X	1	1	4	4	1	1	1	1	1
MIL-C-4339	1	1	4	1	X	4	4	1	1	4	4	4	1	3
MIL-C-7024	1	1	4	1	X	2	4	2	1	4	4	4	1	4
MIL-C-8188	2	2	4	2	X	4	4	3	4	4	4	4	2	4
MIL-E-9500	1	1	1	1	X	1	1	4	4	1	1	1	1	1
MIL-F-16884	1	1	4	1	X	3	4	1	3	4	4	3	1	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
MIL-F-17111	1	1	4	1	X	2	4	1	3	4	4	2	2	4
MIL-F-25558 (RJ-1)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
MIL-F-25656	1	1	4	1	X	4	4	2	2	4	4	4	2	4
MIL-F-5566	2	2	1	1	X	2	2	4	2	1	1	1	1	1
MIL-F-81912 (JP-9)	3	3	4	1	X	4	4	4	3	4	4	X	2	4
MIL-F-82522 (RJ-4)	2	2	4	1	X	4	4	1	1	4	1	X	1	4
MIL-G-10924	1	1	4	1	X	2	4	2	1	4	4	2	1	4
MIL-G-15793	1	1	4	1	X	2	4	1	1	4	4	2	2	4
MIL-G-21568	1	1	1	1	X	1	1	1	1	1	1	1	1	4
MIL-G-25013	1	1	1	1	X	2	1	1	3	1	2	2	1	4
MIL-G-25537	1	1	4	1	X	2	4	2	1	4	4	2	1	4
MIL-G-25760	2	2	4	1	X	2	4	2	2	4	4	2	2	4
MIL-G-3278	2	2	4	1	X	4	4	1	2	4	4	4	2	4
MIL-G-3545	1	1	4	1	X	2	4	1	1	4	4	2	1	4
MIL-G-4343	2	2	3	1	X	2	1	1	1	3	1	1	1	3
MIL-G-5572	1	1	4	1	X	4	4	2	2	4	4	4	1	4
MIL-G-7118	2	2	4	1	X	2	4	3	3	4	4	2	1	4
MIL-G-7187	1	1	4	1	X	4	4	1	1	4	4	4	1	4
MIL-G-7421	2	2	4	1	X	2	4	4	2	4	4	2	2	4
MIL-G-7711	1	1	4	1	X	4	4	2	1	4	4	4	1	2
MIL-H-13910	1	1	1	1	X	1	1	2	4	1	1	1	2	4
MIL-H-19457	4	4	2	1	X	4	4	4	4	1	4	4	4	3
MIL-H-22251	2	2	1	X	X	2	2	X	X	1	X	2	X	4
MIL-H-27601	1	1	4	1	X	2	4	1	3	4	4	3	2	4
MIL-H-46170 -15°F to +400°F	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-H-46170 -20°F to +275°F	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-H-46170 -55°F to +275°F	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-H-46170 -65°F to +275°F	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-H-5606 -65°F to +235°F	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-H-5606 -65°F to +275°F	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-H-6083	1	1	4	1	X	1	4	1	1	4	2	2	1	4
MIL-H-7083	1	1	1	2	X	2	2	4	4	1	2	2	1	1
MIL-H-8446 (MLO-8515)	2	2	4	1	X	1	4	3	4	4	4	X	1	4
MIL-J-5161	2	2	4	1	X	4	4	1	2	4	4	4	1	4
MIL-L-15016	1	1	4	1	X	2	4	1	1	4	4	2	2	4
MIL-L-15017	1	1	4	1	X	2	4	1	1	4	4	2	2	4
MIL-L-17331	1	1	4	1	X	X	4	X	X	4	4	X	X	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
MIL-L-2104	1	1	4	1	X	2	4	1	1	4	4	3	1	4
MIL-L-21260	1	1	4	1	X	2	4	1	1	4	4	2	1	4
MIL-L-23699	2	2	4	1	X	3	4	3	3	4	4	3	2	4
MIL-L-25681	2	2	1	1	X	2	2	2	3	1	2	2	2	4
MIL-L-3150	1	1	4	1	X	2	4	2	2	4	4	2	1	4
MIL-L-6081	1	1	4	1	X	2	4	1	1	4	4	2	1	4
MIL-L-6082	1	1	4	1	X	2	4	1	1	4	4	2	1	3
MIL-L-6085	2	2	4	1	X	4	4	2	3	4	4	4	2	4
MIL-L-6387	2	2	4	1	X	4	4	2	1	4	4	4	2	4
MIL-L-7808	2	2	4	1	X	4	4	2	4	4	4	4	2	4
MIL-L-7870	1	1	4	1	X	2	4	1	2	4	4	4	1	4
MIL-L-9000	1	1	4	1	X	2	4	1	3	4	4	2	2	4
MIL-L-9236	2	2	4	1	X	4	4	2	2	4	4	4	2	4
MIL-O-3503	1	1	4	1	X	2	4	2	1	4	4	2	1	4
MIL-P-27402	2	2	1	X	X	2	2	X	X	1	X	2	X	4
MIL-R-25576 (RP-1)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
MIL-S-3136, Type I Fuel	1	1	4	1	X	2	4	1	1	4	4	2	1	4
MIL-S-3136, Type II Fuel	2	2	4	1	X	4	4	3	2	4	4	4	2	4
MIL-S-3136, Type III Fuel	2	2	4	1	X	4	4	3	2	4	4	4	2	4
MIL-S-3136, Type IV Oil High Swell	1	1	4	1	X	4	4	1	1	4	4	4	1	2
MIL-S-3136, Type IV Oil Low Swell	1	1	4	1	X	1	4	1	1	4	4	1	1	3
MIL-S-3136, Type V Oil Medium Swell	1	1	4	1	X	2	4	1	1	4	4	2	1	2
MIL-S-81087	1	1	1	1	X	1	1	1	1	1	1	1	2	3
MIL-T-5624, JP-4, JP-5	1	1	4	1	X	4	4	2	2	4	4	4	2	4
MIL-T-83133	1	1	4	1	X	3	4	1	1	4	4	X	2	4
MLO-7277 Hydr.	3	3	4	1	X	4	4	3	3	4	4	4	3	4
MLO-7557	3	3	4	1	X	4	4	3	3	4	4	4	3	4
MLO-8200 Hydr.	2	2	4	1	X	1	4	X	1	4	4	4	2	4
MLO-8515	2	2	4	1	X	1	4	3	1	4	4	3	1	4
Magnesium Chloride	1	1	1	1	X	1	1	X	1	1	1	1	1	1
Magnesium Hydroxide	2	2	1	1	X	2	2	4	4	1	2	1	X	X
Magnesium Salts	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Magnesium Sulfite and Sulfate	1	1	1	1	X	1	2	4	X	1	2	1	1	1
Magnesium Trisilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Malathion	2	2	4	1	X	X	4	X	X	4	4	X	2	4
Maleic Acid	4	4	4	1	X	4	4	4	X	4	4	4	X	X
Maleic Anhydride	4	4	2	4	X	4	4	4	X	2	4	4	X	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Maleic Hydrazide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Malic Acid	1	1	2	1	X	2	2	4	X	4	3	2	1	2
Mandelic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Dioxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Gluconate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Hypophosphite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Linoleate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganese Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganous Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganous Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Manganous Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mannitol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercaptan	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Mercaptobenzothiazole (MBT)	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Mercuric Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercuric Chloride	1	1	1	1	X	1	1	X	X	1	1	1	X	X
Mercuric Cyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercuric Iodide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercuric Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercuric Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercuric Sulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercurous Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercury	1	1	1	1	X	1	1	X	X	1	1	1	X	X
Mercury Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercury Fulminate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercury Salts	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mercury Vapors	1	1	1	1	X	1	1	X	X	1	1	1	X	X
Mesityl Oxide (Ketone)	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Meta-Cresol	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Meta-Nitroaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Meta-Toluidine	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Metaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methacrylic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Methallyl Chloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methane	1	1	4	1	X	2	4	1	3	4	4	2	3	4
Methanol	4	4	1	4	X	1	1	4	4	1	1	1	1	1
Methoxychlor	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Methoxyethanol (DGMMA)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Abietate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Acetate	4	4	2	4	X	2	4	4	4	2	4	4	4	4
Methyl Acetoacetate	4	4	2	4	X	4	X	4	4	2	X	4	4	2
Methyl Acetophenone	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Acrylate	4	4	2	4	X	2	4	4	4	2	4	4	4	4
Methyl Alcohol	4	4	1	4	X	1	1	4	4	1	1	1	1	1
Methyl Amylketone	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Anthranilate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Benzoate	4	4	4	1	X	4	4	4	4	4	4	4	1	4
Methyl Bromide	2	2	4	1	X	4	4	3	X	4	4	4	1	X
Methyl Butyl Ketone	4	4	1	4	X	4	4	4	4	1	4	4	4	4
Methyl Butyrate Cellosolve	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Butyrate Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Carbonate	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Methyl Cellosolve	3	3	2	4	X	3	4	4	4	2	4	2	4	4
Methyl Cellulose	2	2	2	4	X	2	2	4	2	2	2	2	4	2
Methyl Chloride	4	4	3	1	X	4	4	4	4	3	4	4	2	4
Methyl Chloroacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Chloroform	4	4	4	1	4	4	X	X	X	X	X	X	X	X
Methyl Chloroformate	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Methyl Cyanide (Acetonitrile)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Cyclohexanone	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Methyl Dichloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Ether	1	1	4	1	X	3	4	4	X	4	4	4	1	1
Methyl Ethyl Ketone (MEK)	4	4	1	4	X	4	4	4	4	1	4	4	4	4
Methyl Ethyl Ketone Peroxide	4	4	4	4	X	4	4	4	4	4	4	4	4	2
Methyl Ethyl Oleate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Formate	4	4	2	X	X	2	4	X	X	2	4	2	X	X
Methyl Hexyl Ketone (2-Octanone)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Iodide	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Methyl Isobutyl Ketone (MIBK)	4	4	3	4	X	4	4	4	4	3	4	4	4	4
Methyl Isocyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Methyl Isopropyl Ketone	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Methyl Isovalerate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Lactate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methyl Mercaptan	X	X	1	X	X	X	X	X	X	1	X	X	X	X
Methyl Methacrylate	4	X	4	4	X	4	4	4	X	4	4	4	4	4
Methyl Oleate	4	4	2	1	X	4	4	X	X	2	4	4	2	X
Methyl Pentadiene	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Phenylacetate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl Salicylate	4	4	2	X	X	4	3	X	X	2	3	4	X	X
Methyl Tertiary Butyl Ether (MTBE)	3	3	3	3	2	3	X	X	X	X	X	X	X	X
Methyl Valerate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methyl-2-Pyrrolidone or n-Methyl-2-Pyrrolidone	X	X	2	X	X	X	X	X	X	X	X	X	X	X
Methylacrylic Acid	4	4	2	3	X	2	4	4	4	2	4	4	4	4
Methylal	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Methylamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methylamyl Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methylcyclopentane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Methylene Bromide	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methylene Chloride	4	4	4	2	X	4	4	4	4	4	4	4	2	4
Methylene Iodide	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methylglycerol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Methylisobutyl Carbinol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Methylpyrrolidine	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methylpyrrolidone	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Methylsulfuric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Milk	1	1	1	1	X	1	1	4	4	1	1	1	1	1
Mineral Oils	1	1	3	1	X	2	4	1	1	3	4	2	1	2
Mixed Acids	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mobil 24dte	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Mobil Delvac 1100, 1110, 1120, 1130	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Mobil HF	1	1	4	1	X	2	X	X	X	X	X	X	X	X
Mobil Nivac 20, 30	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Mobil SHC 500 Series	3	3	4	1	X	2	X	1	2	4	X	2	2	2
Mobil SHC 600 Series	3	3	4	1	X	2	4	1	1	4	X	2	2	3
Mobil Therm 600	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Mobil Velocite c	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Mobilgas WA200 ATF	1	1	4	1	1	2	X	X	X	X	X	X	X	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Mobilgear 600 Series	3	3	3	1	X	1	4	1	2	3	4	2	1	1
Mobilgear SHC ISO Series	3	3	3	1	X	2	4	1	2	3	4	2	1	1
Mobilgrease HP	2	2	4	1	X	2	4	1	1	4	4	3	1	2
Mobilgrease HTS	2	2	4	1	X	2	4	1	1	4	4	3	1	2
Mobilgrease SM	2	2	4	1	X	2	4	1	1	4	4	3	1	2
Mobilith AW Series	2	2	4	1	X	2	4	1	1	4	4	3	1	2
Mobilith SHC Series	2	2	4	1	X	3	4	1	1	4	4	3	1	2
Mobiljet II Lubricant	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Mobilmistlube Series	3	3	3	1	X	1	4	1	2	3	4	2	1	1
Mobiloil SAE 20	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Mobilux	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Molybdenum Disulfide Grease	1	X	4	1	1	4	X	X	X	X	X	X	X	X
Molybdenum Oxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Molybdenum Trioxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Molybdic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Monobromobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Monobromotoluene	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Monobutyl Paracresol	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Monochloroacetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Monochlorobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Monochlorobutene	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Monochlorohydrin	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Monoethanolamine (MEA)	4	4	2	4	X	4	2	4	4	2	2	4	4	2
Monoethyl Amine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Monoisopropylamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Monomethyl Aniline	4	X	1	2	X	1	1	4	4	1	1	1	1	2
Monomethyl Ether (Dimethyl Ether)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Monomethyl Ether (Methyl Ether)	1	X	4	1	X	X	X	X	X	X	X	X	X	X
Monomethyl Hydrazine	2	2	1	X	X	2	2	X	X	1	X	2	X	4
Monomethylamine (MMA)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Monomethylaniline	4	4	2	2	X	4	4	4	4	2	4	4	X	X
Mononitrotoluene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Mononitrotoluene & Dinitrotoluene(40/60 Mix)	4	4	1	3	X	4	4	4	4	4	4	4	3	4
Monovinyl Acetylene	1	1	1	1	X	2	2	X	X	1	2	2	X	2
Mopar Brake Fluid	3	3	1	4	X	2	1	X	X	2	X	2	4	3
Morpholine	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Motor Oils	1	1	4	1	X	2	4	1	1	4	4	2	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Mustard Gas	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Myristic Acid	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Naphthalene	4	4	4	1	X	4	4	X	2	4	4	4	1	4
Naphthalene Chloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Naphthalene Sulfonic Acid	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Naphthalenic Acid	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Naphthalonic Acid	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Naphthenic Acid	2	2	4	1	X	4	4	X	X	4	4	4	1	4
Naphthylamine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Naphtha	2	2	4	1	X	4	4	2	2	4	4	4	2	4
Natural Gas	1	1	4	1	X	1	2	2	2	4	2	1	3	4
Neatsfoot Oil	1	1	2	1	X	4	4	1	1	2	4	4	1	2
Neon	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Neville Acid	4	4	2	1	X	4	4	4	X	2	4	4	2	4
Nickel Acetate	2	2	1	4	X	2	4	4	4	1	1	4	4	4
Nickel Ammonium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nickel Chloride	1	1	1	1	X	2	1	3	3	1	1	1	1	1
Nickel Cyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nickel Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nickel Salts	1	1	1	1	X	2	1	3	3	1	1	1	1	1
Nickel Sulfate	1	1	1	1	X	1	2	4	3	1	2	1	1	1
Nicotinamide (Niacinamide)	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Nicotinamide Hydrochloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nicotine	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Nicotine Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Niter Cake	1	1	1	1	X	1	1	4	1	1	1	1	1	1
Nitric Acid (0 - 50%)	4	X	2	1	X	X	X	X	X	X	X	X	X	X
Nitric Acid (50 - 100%)	4	X	4	3	X	X	X	X	X	X	X	X	X	X
Nitric Acid - Red Fuming	4	4	4	2	3	4	X	X	X	X	X	X	X	X
Nitric Acid - White Fuming	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitric Acid 3 Molar to 158°F	4	4	2	3	X	4	3	4	4	2	X	2	4	4
Nitric Acid Concentrated Room Temp.	X	X	4	2	X	X	X	X	X	X	X	X	X	X
Nitric Acid Concentrated to 158°F	4	4	4	4	X	4	4	4	4	4	4	X	4	4
Nitroaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrobenzene	4	4	1	2	X	4	4	4	4	1	4	4	4	4
Nitrobenzoic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrocellulose	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Nitrochlorobenzene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrochloroform	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrodiethylaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrodiphenyl Ether	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitroethane	4	4	2	4	X	2	2	4	4	2	2	2	4	4
Nitrofluorobenzene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrogen	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Nitrogen Oxides	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrogen Trifluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitroglycerine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitroglycerol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitroisopropylbenzene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitromethane	4	4	2	4	X	3	3	4	4	2	2	2	4	4
Nitrophenol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitropropane	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Nitrosyl Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitrosylsulfuric Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitrothiophene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrotoluene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrous Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Nitrous Oxide	1	1	1	1	X	X	X	X	X	X	X	X	X	1
Nonane	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Noryl GE Phenolic	1	1	1	X	X	X	X	X	X	X	X	X	X	X
Nyvac FR200 Mobil	1	1	1	1	X	2	4	X	X	4	4	3	X	X
OS 45 Type III (OS45)	2	2	4	1	X	1	4	X	4	4	4	2	2	4
OS 45 Type IV (OS45-1)	2	2	4	1	X	1	4	X	4	4	4	2	2	4
OS 70	2	2	4	1	X	1	4	X	4	4	4	2	2	4
Octachloro Toluene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Octadecane	1	1	4	1	X	2	4	2	1	4	4	2	1	4
Octanal (n-Octanaldehyde)	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Octane or n-Octane	1	1	4	1	X	4	4	4	4	4	4	4	2	4
Octyl Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Octyl Alcohol	2	2	3	1	X	2	2	4	4	2	2	2	2	2
Octyl Chloride	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Octyl Phthalate	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Olefins	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Oleic Acid	3	3	4	2	X	4	4	4	2	4	4	4	X	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Oleum (Fuming Sulfuric Acid)	4	4	4	1	X	4	4	4	4	4	4	4	X	4
Oleum Spirits	2	2	4	1	X	3	4	X	3	4	4	2	2	4
Oleyl Alcohol	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Olive Oil	1	1	2	1	X	2	4	1	1	2	4	2	1	3
Oronite 8200	2	2	4	1	X	1	4	X	1	4	4	4	1	4
Oronite 8515	2	2	4	1	X	1	4	X	1	4	4	4	1	4
Ortho-Chloro Ethyl Benzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Ortho-Chloroaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ortho-Chlorophenol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ortho-Cresol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ortho-Dichlorobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Ortho-Nitrotoluene	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Orthophos Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Oxalic Acid	2	2	1	1	X	2	2	X	X	1	2	2	1	2
Oxygen 200-300°F (Evaluate each application)	4	4	4	2	X	X	X	X	X	X	X	X	X	X
Oxygen 300-400°F (Evaluate each application)	4	4	4	2	X	4	4	4	4	4	4	4	4	1
Oxygen, Cold (Evaluate each application)	2	2	1	1	X	1	2	2	1	1	2	1	1	1
Oxygen, Liquid	4	4	4	4	4	4	X	X	X	X	X	X	X	X
Ozonated Deionized Water	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ozone	4	3	1	1	X	2	4	2	1	2	4	1	1	1
PRL-High Temp. Hydraulic Oil	2	2	4	1	X	2	4	1	2	4	4	4	1	2
Paint Thinner	4	4	4	2	X	4	4	4	4	4	4	4	2	4
Palmitic Acid	1	1	2	1	X	2	2	X	1	2	2	3	1	4
Para-Aminobenzoic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Aminosalicylic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Bromobenzylphenyl Ether	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Para-Chlorophenol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Dichlorobenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Para-Formaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Nitroaniline	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Nitrobenzoic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Nitrophenol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Para-Toluene Sulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Paracymene	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Paraffins	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Paraldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Parathion	X	X	X	1	X	4	4	4	3	4	4	4	2	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Parker O Lube	1	1	4	1	X	1	2	1	1	4	4	1	1	2
Peanut Oil	1	1	3	1	X	3	4	1	2	3	4	2	1	1
Pectin (Liquor)	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Penicillin (Liquid)	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Pentachloroethane	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Pentachlorophenol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pentaerythritol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pentaerythritol Tetranitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pentafluoroethane (F-125)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pentane or n-Pentane	1	1	4	1	X	1	3	1	4	4	4	2	3	4
Pentane, 2 Methyl	1	1	4	1	X	2	4	1	4	4	4	2	3	4
Pentane, 2-4 dimethyl	1	1	4	1	X	2	4	1	4	4	4	2	3	4
Pentane, 3-Methyl	1	1	4	1	X	2	4	1	4	4	4	2	3	4
Pentyl Pentanoate	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Peracetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Perchloric Acid - 2N	4	4	1	1	X	2	4	4	4	2	4	2	1	2
Perchloroethylene	2	2	4	1	X	4	4	4	4	4	4	4	2	4
Perfluoropropane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Perfluorotriethylamine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Permanganic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Persulfuric Acid (Caro's Acid)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Petrolatum	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Petrolatum Ether	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Petroleum Oil, Above 250°F	4	4	4	2	X	4	4	4	4	4	4	4	4	4
Petroleum Oil, Below 250°F	1	1	4	1	X	2	4	2	2	4	4	2	2	2
Petroleum Oil, Crude	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Phenol	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Phenol, 70%/30% H2O	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Phenol, 85%/15% H2O	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Phenolic Sulfonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phenolsulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phenylacetamide	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Phenylacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phenylacetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phenylbenzene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Phenylethyl Alcohol	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Phenylethyl Ether	4	4	4	4	X	4	4	4	4	4	4	4	4	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Phenylethyl Malonic Ester	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Phenylglycerine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phenylhydrazine	4	4	2	1	X	4	2	4	X	4	1	4	X	X
Phenylhydrazine Hydrochloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phenylmercuric Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phorone	4	4	3	4	X	4	4	4	4	3	4	4	4	4
Phosphoric Acid 3 Molar to 158°F	1	1	1	1	X	2	2	3	4	1	X	1	2	2
Phosphoric Acid Concentrated Room Temp	2	2	1	1	X	2	1	2	4	1	X	1	3	3
Phosphoric Acid Concentrated to 158°F	4	4	1	1	X	3	2	3	4	1	X	1	3	4
Phosphoric Acid, 20%	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phosphoric Acid, 45%	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phosphorus Oxychloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phosphorus Trichloride	4	4	1	1	X	4	4	X	X	1	4	4	1	X
Phosphorus Trichloride Acid	4	4	1	1	1	4	X	X	X	X	X	X	X	X
Phthalic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Phthalic Anhydride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pickling Solution	4	4	3	2	X	4	4	4	4	3	4	2	4	4
Picric Acid (aq)	1	1	1	1	X	1	2	X	X	1	1	1	2	X
Picric Acid Molten	2	2	2	1	X	2	2	X	X	2	2	2	2	4
Pine Oil	1	1	4	1	X	4	4	X	X	4	4	4	1	4
Pine Tar	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Pinene	2	2	4	1	X	3	4	4	2	4	4	4	1	4
Piperazine	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Piperidine	4	4	4	1	X	4	4	4	3	4	4	4	2	4
Plating Solution (Co,Cu,Au,In,Fe,Pb,Ni,Ag,Sn,Zn)	1	1	1	1	1	X	X	X	X	X	X	X	X	X
Plating Solutions Chrome	4	4	2	1	X	4	4	4	4	2	4	4	2	2
Plating Solutions Others	1	1	1	1	X	4	4	X	X	1	4	1	X	4
Pneumatic Service	1	1	1	1	X	1	4	4	1	1	4	1	4	4
Polyethylene Glycol	2	2	1	3	1	2	X	X	X	X	X	X	X	X
Polyglycerol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Polyglycol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Polyvinyl Acetate Emulsion	X	X	1	X	X	2	4	X	X	1	2	2	X	X
Potassium Acetate	2	2	1	4	X	2	4	4	4	1	1	1	4	4
Potassium Acid Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Alum	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Aluminum Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Antimonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Potassium Bicarbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Bichromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Bifluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Bisulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Bisulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Bitartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Bromide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Chlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Chloride	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Potassium Chromates	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Citrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Cupro Cyanide	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Potassium Cyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Cyanide	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Potassium Dichromate	1	1	1	1	X	1	1	1	2	1	1	1	1	1
Potassium Diphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Ferricyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Fluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Glucocyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Hydroxide 50%	2	2	1	4	X	2	2	4	4	1	2	1	3	3
Potassium Hypochlorite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Iodate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Iodide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Metabisulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Metachromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Metasilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Potassium Monochromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Nitrate	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Potassium Nitrite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Oxalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Perchlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Perfluoro Acetate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Potassium Permanganate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Peroxide	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Potassium Persulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Phosphate (Acid)	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Potassium Phosphate (Alkaline)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Phosphate (Di/Tri Basic)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Pyrosulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Salts	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Potassium Silicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Potassium Sodium Tartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Stannate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Stearate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Sulfate	1	1	1	1	X	1	2	4	1	1	2	2	1	1
Potassium Sulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Sulfite	1	1	1	1	X	1	2	4	1	1	2	2	1	1
Potassium Tartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Thiocyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Thiosulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Potassium Triphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Prestone Antifreeze	1	1	1	1	X	1	1	4	4	1	1	1	1	1
Producer Gas	1	1	4	1	X	2	4	2	1	4	4	2	2	2
Propane	1	1	4	1	X	2	4	1	3	4	4	2	2	4
Propionaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Propionic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Propionitrile	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Propyl Acetate	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Propyl Acetone or n-Propyl Acetone	4	4	1	4	X	4	4	4	4	1	4	4	4	4
Propyl Alcohol	1	1	1	1	X	1	1	4	4	1	1	1	1	1
Propyl Nitrate	4	4	2	4	X	4	4	4	X	2	4	4	4	4
Propyl Propionate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Propylamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Propylbenzene	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Propylene	3	3	4	1	X	4	4	4	4	4	4	4	3	4
Propylene Chloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Propylene Chlorohydrin	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Propylene Dichloride	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Propylene Glycol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Propylene Imine	X	X	X	1	X	4	4	4	3	4	4	4	2	X
Propylene Oxide	4	4	2	4	X	4	4	4	4	2	4	4	4	4
Pydraul 10E	4	4	1	4	X	4	4	4	4	1	4	4	4	1
Pydraul 29ELT 30E, 50E, 65E	4	4	1	1	X	4	4	4	4	1	4	4	1	1

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Pydraul 90e	4	4	1	1	1	4	X	X	X	X	X	X	X	X
Pydraul 115E	4	4	1	1	X	4	4	4	4	1	4	4	3	4
Pydraul 230C, 312C, 540C, A200	4	4	4	1	X	4	4	4	4	4	4	4	4	4
Pyranol Transformer Oil	1	1	4	1	X	2	4	1	2	4	4	2	1	4
Pyridine	4	4	2	1	X	4	4	4	3	4	4	4	2	X
Pyridine Oil	4	4	2	4	X	4	4	4	X	2	4	4	4	4
Pyridine Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pyridine Sulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pyrogallol (Pyrogallic Acid)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Pyrogard 42, 43, 55	4	4	1	1	2	4	X	X	X	X	X	X	X	X
Pyrogard 53, Mobil Phosphate Ester	4	4	1	1	X	4	4	4	4	1	4	4	4	4
Pyrogard D, Mobil Water-in-Oil Emulsion	1	1	4	4	X	2	4	X	1	4	4	1	2	3
Pyroligneous Acid	4	4	2	4	X	2	4	4	4	2	4	2	4	X
Pyrolube	4	4	2	1	X	4	4	4	4	2	4	4	2	2
Pyrosulfuric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Pyrosulfuryl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Pyrrole	4	4	4	4	X	4	2	4	X	4	2	2	4	2
Pyruvic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Quinidine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Quinine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Quinine Bisulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Quinine Hydrochloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Quinine Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Quinine Tartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Quinizarin	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Quinoline	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Quinone	2	2	4	1	X	4	4	4	3	4	4	4	2	X
RJ-1 (MIL-F-25558)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
RJ-4 (MIL-F-82522)	2	2	4	1	X	4	4	2	2	4	4	X	1	4
RP-1 (MIL-R-25576)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Raffinate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Rapeseed Oil	2	2	1	1	X	2	4	2	2	1	4	2	1	4
Red Line 100 Oil	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Red Oil (MIL-H-5606)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Resorcinol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Rhodium	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Riboflavin	2	2	4	1	X	4	4	4	3	4	4	4	2	X

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Ricinoleic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Rosin	2	2	4	1	X	4	4	4	3	4	4	4	2	X
SF 1154 GE Silicone Fluid	2	2	1	1	X	1	1	1	2	1	1	1	1	4
SF1147 GE Silicone Fluid	2	2	3	1	X	X	X	X	X	3	X	X	X	4
SF96 GE Silicone Fluid	2	2	1	1	X	1	1	1	2	1	1	1	1	4
SR-6 Fuel	2	2	4	1	X	4	4	2	2	4	4	4	1	4
SR-10 Fuel	1	1	4	1	X	4	4	2	2	4	4	4	1	4
Saccharin Solution	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sal Ammoniac	1	1	1	1	X	1	1	1	1	1	1	1	1	2
Salicylic Acid	2	2	1	1	X	X	2	X	X	1	1	X	1	X
Santo Safe 300	4	4	3	1	X	4	4	4	X	3	4	X	1	1
Sea (Salt) Water	1	1	1	1	X	2	1	4	2	1	1	1	1	1
Sebacic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Selenic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Selenous Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sewage	1	1	1	1	X	2	1	4	4	1	1	1	1	1
Shell 3XF Mine Fluid (Fire resist hydr.)	1	1	4	1	X	2	4	4	4	4	4	2	1	X
Shell Alvania Grease #2	1	1	4	1	X	2	4	1	1	4	4	4	1	2
Shell Carnea 19 and 29	1	1	4	1	X	4	4	1	2	4	4	4	1	X
Shell Diala	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Shell Irus 905	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Shell Lo Hydrax 27 and 29	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Shell Macome 72	1	1	4	1	X	2	4	1	2	4	4	4	1	4
Shell Tellus #32 Pet. Base	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Shell Tellus #68	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Shell Tellus 27 (Petroleum Base)	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Shell Tellus 33	1	1	4	1	1	2	X	X	X	X	X	X	X	X
Shell UMF (5% Aromatic)	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Shellac	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Silane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silicate Esters	2	2	4	1	X	1	4	X	1	4	4	X	1	4
Silicon Fluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silicon Tetrachloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silicon Tetrafluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Silicone Greases	1	1	1	1	X	1	1	1	1	1	1	1	2	3
Silicone Oils	1	1	1	1	X	1	1	1	1	1	1	1	3	3
Silver Bromide	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Silver Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Silver Cyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Silver Nitrate	2	2	1	1	X	1	1	1	1	1	1	1	1	1
Silver Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sinclair Opaline CX-EP Lube	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Skelly, Solvent B, C, E	1	1	4	1	X	4	4	X	X	4	4	4	1	X
Skydrol 500 B4	4	4	1	4	X	4	4	4	4	2	4	4	3	3
Skydrol 7000	4	4	1	2	1	4	X	X	X	X	X	X	X	X
Skydrol LD-4	4	4	1	4	X	4	4	4	4	2	4	4	3	3
Soap Solutions	1	1	1	1	X	2	2	4	4	1	2	1	1	1
Socony Mobile Type A	1	1	4	1	X	2	4	1	2	4	4	4	2	4
Socony Vacuum AMV AC781 (grease)	1	1	4	1	X	2	4	1	2	4	4	4	2	4
Socony Vacuum PD959B	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Soda Ash	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Sodium (Molten)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Acetate	2	2	1	4	X	2	4	3	3	1	1	1	4	4
Sodium Acid Bisulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Acid Fluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Acid Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Aluminate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Aluminate Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Anthraquinone Disulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Antimonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Arsenate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Arsenite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Benzoate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Bicarbonate (Baking Soda)	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Sodium Bichromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Bifluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Bisulfate or Bisulfite	1	1	1	1	X	1	2	4	X	1	1	1	1	1
Sodium Bisulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Bitartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Borate	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Sodium Bromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Bromide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Carbonate (Soda Ash)	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Sodium Chlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Sodium Chloride	1	1	1	1	X	1	1	X	1	1	1	1	X	1
Sodium Chlorite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Chloroacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Chromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Citrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Cyanamide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Cyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Cyanide	1	1	1	X	X	1	1	X	X	1	1	1	X	1
Sodium Diacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Diphenyl Sulfonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Diphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Disilicate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Ethylate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Ferricyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Ferrocyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Fluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Fluorosilicate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Glutamate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Hydride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Hydrogen Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Hydrosulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Hydrosulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Hydroxide, 3 Molar	2	2	1	2	X	2	2	4	2	1	1	1	2	1
Sodium Hypochlorite	2	2	1	1	X	2	2	4	4	1	2	1	2	2
Sodium Hypophosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Hypophosphite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Hyposulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Iodide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Lactate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Metaphosphate	1	1	1	1	X	2	1	X	X	1	1	2	1	X
Sodium Metasilicate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Methylate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Monophosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Nitrate	2	2	1	X	X	2	2	X	X	1	2	1	X	4
Sodium Oleate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Orthosilicate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Oxalate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Sodium Perborate	2	2	1	1	X	2	2	X	X	1	2	2	1	2
Sodium Percarbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Perchlorate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Peroxide	2	2	1	1	X	2	2	4	4	1	2	2	1	4
Sodium Persulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Phenolate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Phenoxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Phosphate (Dibasic)	1	1	1	1	X	2	1	1	1	1	1	1	X	4
Sodium Phosphate (Mono)	1	1	1	1	X	2	1	1	1	1	1	1	X	4
Sodium Phosphate (Tribasic)	1	1	1	1	X	2	1	1	1	1	1	1	X	1
Sodium Plumbite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Pyrophosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Resinate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Salicylate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Salts	1	1	1	1	X	2	1	1	1	1	1	1	1	1
Sodium Sesquisilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Silicate	1	1	1	1	X	1	1	X	X	1	1	1	X	X
Sodium Silicofluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sodium Stannate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Sulfate	1	1	1	1	X	1	2	4	1	1	2	1	1	1
Sodium Sulfide and Sulfite	1	1	1	1	X	1	2	4	1	1	2	1	1	1
Sodium Sulfoyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Tartrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Tetraborate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Tetraphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Tetrasulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Thioarsenate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Thiocyanate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Thiosulfate	2	2	1	1	X	1	2	4	1	1	2	1	1	1
Sodium Trichloroacetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sodium Triphosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Solvesso 100, 150	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sorbitol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sour Crude Oil	3	3	4	1	X	4	4	4	4	4	4	X	4	4
Sour Natural Gas	3	3	4	1	X	4	4	4	4	4	4	X	4	4
Sovasol No. 1, 2, and 3	1	1	4	1	X	2	4	2	2	4	4	2	1	4
Sovasol No. 73 and 74	2	2	4	1	X	2	4	2	2	4	4	2	1	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Soybean Oil	1	1	3	1	X	3	4	1	X	3	4	3	1	1
Spry	1	1	2	1	X	2	4	1	1	2	4	4	1	1
Standard Oil Mobilube GX90-EP Lube	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Stannic Ammonium Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Stannic Chloride	1	1	1	1	X	4	1	X	X	1	1	4	1	2
Stannic Chloride, 50%	1	1	1	1	X	4	1	X	X	1	1	4	1	2
Stannic Tetrachloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Stannous Bisulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Stannous Bromide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Stannous Chloride (15%)	1	1	1	1	X	1	1	X	X	1	1	1	1	2
Stannous Fluoride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Stannous Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Stauffer 7700	2	2	4	1	X	4	4	2	X	4	4	4	2	4
Steam Below 400°F	4	4	1	4	X	4	4	4	4	2	4	4	4	3
Steam, 400°-500°F	4	4	3	4	X	4	4	4	4	4	4	4	4	4
Steam, Above 500°F	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Stearic Acid	2	2	2	X	X	2	2	X	X	2	2	2	X	2
Stoddard Solvent	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Strontium Acetate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Strontium Carbonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Strontium Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Strontium Hydroxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Strontium Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Styrene (Monomer)	4	4	4	2	X	4	4	4	X	4	4	4	3	4
Succinic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sucrose Solutions	1	1	1	1	X	2	1	4	4	1	1	2	1	1
Sulfamic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfanilic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfanilic Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Sulfanilimide	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Sulfite Liquors	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfolane	2	2	1	2	1	2	X	X	X	X	X	X	X	X
Sulfonated Oils	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Sulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfonyl Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfur	4	4	1	1	X	1	4	4	X	1	4	X	1	X
Sulfur (Molten)	4	4	3	1	X	3	4	4	4	3	4	4	3	3

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Sulfur Chloride	4	4	4	1	X	4	4	4	X	4	4	4	1	3
Sulfur Dioxide, Dry	4	4	1	4	X	4	2	4	X	2	2	4	2	2
Sulfur Dioxide, Liquidified under pressure	4	4	1	4	X	4	4	4	X	2	4	4	2	2
Sulfur Dioxide, Wet	4	4	1	4	X	2	4	4	X	1	4	3	2	2
Sulfur Hexafluoride	2	2	1	3	3	1	X	X	X	X	X	X	X	X
Sulfur Liquors	2	2	2	1	X	2	2	4	X	2	2	2	2	4
Sulfur Monochloride	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Sulfur Tetrafluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sulfur Trioxide Dry	4	4	2	1	X	4	3	4	X	2	2	4	2	2
Sulfuric Acid (20% Oleum)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfuric Acid, 3 Molar to 158°F	2	2	1	1	X	2	3	2	4	1	X	1	1	1
Sulfuric Acid, Concentrated Room Temp	X	X	3	1	X	X	X	X	3	X	X	X	X	X
Sulfuric Acid, Concentrated to 158°F	4	X	4	1	X	4	4	4	4	4	X	X	4	4
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Sulfurous Acid	2	2	2	1	X	2	2	4	3	2	2	1	X	4
Sunoco #3661	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Sunoco All purpose grease	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Sunoco SAE 10	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Sunsafe (Fire resist. hydr. fluid)	1	1	4	1	X	2	4	4	4	4	4	2	1	X
Super Shell Gas	1	1	4	1	X	2	4	2	2	4	4	4	2	4
Surfuryl Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Swan Finch EP Lube	1	1	4	1	X	4	4	1	1	4	4	4	1	4
Swan Finch Hypoid-90	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Tallow	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Tannic Acid (10%)	1	1	1	1	X	1	2	4	X	1	1	1	1	2
Tar, bituminous	2	2	4	1	X	3	4	4	X	4	3	4	1	2
Tartaric Acid	1	1	2	1	X	2	4	X	1	2	3	1	1	1
Tellone II	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Terephthalic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Terpineol	2	2	3	1	X	4	4	X	2	3	4	4	1	X
Terpinyl Acetate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Tertiary Amyl Methyl Ether (TAME)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tertiary Butyl Catechol or p-Tertiary Butyl Catechol	4	4	2	1	X	2	2	4	4	2	4	2	1	X
Tertiary Butyl Mercaptan	4	4	4	1	X	X	X	X	X	X	X	X	X	X
Tetrabromoethane	4	4	4	1	X	4	4	4	X	4	4	4	2	4
Tetrabromomethane	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Tetrabutyl Titanate	2	2	1	1	X	2	2	X	X	2	2	4	4	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Tetrachloroethylene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Tetrachloroethane	4	4	4	1	X	4	4	4	4	4	4	4	2	X
Tetraethyl Lead	2	2	4	1	X	2	4	X	X	4	4	4	2	X
Tetraethyl Lead "Blend"	2	2	4	1	X	4	4	X	X	4	4	4	2	X
Tetraethyl Orthosilicate (TEOS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tetrahydrofuran	4	4	2	4	X	4	4	4	3	2	4	4	4	4
Tetralin	4	4	4	1	X	4	4	X	X	4	4	4	1	4
Tetramethyl Ammonium Hydroxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tetramethylcyclotetrasiloxane (TMCTS)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tetramethyldihydropyridine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Tetraphosphoglucosate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tetraphosphoric Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Therminol 44	4	4	4	1	X	4	X	4	X	4	X	X	X	4
Therminol 55	2	2	4	1	X	4	X	2	X	4	X	X	X	4
Therminol 66	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Therminol FR	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Therminol VP-1, 60, 65	4	4	4	1	X	4	X	4	X	4	X	X	X	2
Thio Acid Chloride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Thioamyl Alcohol	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Thiodiacetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Thioethanol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Thioglycolic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Thiokol TP-90B	4	4	1	1	X	2	4	X	X	1	X	2	2	X
Thiokol TP-95	4	4	1	1	X	2	4	X	X	1	X	2	2	X
Thionyl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Thiophene (Thiofuran)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Thiophosphoryl Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Thiourea	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Thorium Nitrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tidewater Multigear, 140 EP Lube	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Tidewater Oil-Beedol	1	1	4	1	X	2	4	1	1	4	4	4	1	2
Tin Ammonium Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tin Chloride	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Tin Tetrachloride	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Titanic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Titanium Dioxide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Titanium Sulfate	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Titanium Tetrachloride	2	2	4	1	X	4	4	4	4	4	4	4	2	4
Toluene	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Toluene Bisodium Sulfite	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Toluene Diisocyanate (TDI)	4	4	2	4	X	4	4	4	X	2	4	4	4	4
Toluene Sulfonyl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Toluenesulfonic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Toluidine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Toluol	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Toluquinone	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Tolylaldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Transformer Oil	1	1	4	1	X	2	4	2	1	4	4	4	1	2
Transmission Fluid Type A	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Triacetin	2	2	1	4	X	2	3	4	4	1	2	2	4	X
Triaryl Phosphate	4	4	1	1	X	4	4	4	4	1	4	4	2	3
Tribromomethylbenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Tributoxyethyl Phosphate	4	4	1	1	X	4	2	4	4	1	2	4	2	X
Tributyl Citrate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tributyl Mercaptan	4	4	4	1	X	4	4	4	X	4	4	4	3	4
Tributyl Phosphate	4	4	1	4	X	4	4	4	4	2	2	4	4	4
Tributylamine	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Trichloroacetic Acid	2	2	2	3	X	4	2	4	4	2	2	4	4	X
Trichloroacetyl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Trichlorobenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Trichloroethane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Trichloroethanolamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trichloroethylene	3	3	4	1	X	4	4	4	4	4	4	4	2	4
Trichloromethane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Trichloronitromethane (Chloropicrin)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trichlorophenylsilane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Trichloropropane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Trichlorosilane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Tricresyl Phosphate	4	4	1	2	X	3	2	4	4	1	4	4	2	3
Triethanol Amine	3	3	2	4	X	2	2	4	4	2	2	2	4	X
Triethyl Phosphate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Triethylaluminum	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Triethylborane	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Triethylene Glycol	3	3	1	3	X	1	1	4	4	1	1	1	1	2

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Triethylenetetramine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trifluoroacetic Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trifluoroethane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Trifluoromethane	4	4	4	1	X	4	4	4	4	4	4	4	2	4
Trifluorovinylchloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Triisopropylbenzylchloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Trimethylamine	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trimethylamine (TMA)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trimethylbenzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Trimethylborate (TMB)	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Trimethylpentane	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Trinitrotoluene (TNT)	4	4	4	2	X	2	4	4	X	4	4	2	2	X
Trioctyl Phosphate	4	4	1	2	X	4	4	4	4	1	4	4	2	3
Triphenylphosphite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tripoly Phosphate	4	4	1	2	X	3	4	4	4	1	4	4	1	3
Tripotassium Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Trisodium Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Tritium	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tung Oil (China Wood Oil)	1	1	4	1	X	2	4	X	3	3	4	3	2	4
Tungsten Hexafluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Tungstic Acid	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Turbine Oil	1	1	4	1	X	4	4	1	1	4	4	4	1	4
Turbine Oil #15 (MIL-L-7808A)	2	2	4	1	X	4	4	2	4	4	4	4	2	4
Turbo Oil #35	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Turpentine	1	1	4	1	X	4	4	2	4	4	4	4	2	4
Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Type II Fuel (MIL-S-3136)	2	2	4	1	X	4	4	3	2	4	4	4	2	4
Type III Fuel (MIL-S-3136)(ASTM Ref. Fuel B)	2	2	4	1	X	4	4	3	2	4	4	4	2	4
UPDI (Ultra Pure Deionized Water)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Ucon Hydrolube J-4	1	1	1	1	X	2	1	4	4	1	X	X	2	1
Ucon Lubricant 50-HB	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Lubricant LB-1145	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Lubricant LB-135	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Lubricant LB-285	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Lubricant LB-300X	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Lubricant LB-625	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Lubricant LB-65	1	1	1	1	X	1	2	X	X	1	2	2	1	1

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
Ucon Oil 50-HB-280x	2	2	1	3	1	2	X	X	X	X	X	X	X	X
Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol)	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Oil LB-385	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Ucon Oil LB-400X	1	1	1	1	X	1	1	X	X	1	1	1	1	1
Undecylenic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Undecylic Acid	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Univis 40 (Hydr. Fluid)	1	1	4	1	X	2	4	1	1	4	4	2	1	4
Univolt #35 (Mineral Oil)	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Unsymmetrical Dimethyl Hydrazine (UDMH)	2	2	1	4	X	2	2	X	X	1	1	1	4	4
Uranium Hexachloride	X	X	X	1	X	X	X	X	X	X	X	X	X	X
Uranium Hexafluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Uranium Sulfate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Uric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
VV-H-910	3	3	1	1	X	2	1	2	4	2	2	2	2	2
Valeraldehyde	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Valeric Acid	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Vanadium Oxide	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Vanadium Pentoxide	1	1	4	1	X	2	4	1	1	4	4	2	1	2
Varnish	2	2	4	1	X	4	4	4	3	4	4	4	2	4
Vegetable Oil	1	1	3	1	X	3	4	1	X	3	4	X	1	1
Versilube F-50	1	1	1	1	X	1	1	1	1	1	1	1	1	3
Versilube F44, F55	1	1	1	1	1	1	X	X	X	X	X	X	X	X
Vinegar	2	2	2	3	X	2	2	4	4	2	2	X	3	3
Vinyl Acetate	2	2	1	3	1	2	X	X	X	X	X	X	X	X
Vinyl Benzene	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Vinyl Benzoate	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Vinyl Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Vinyl Fluoride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Vinylidene Chloride	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Vinylpyridine	2	2	4	1	X	4	4	4	3	4	4	4	2	X
Vitriol (White)	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Wagner 21B Brake Fluid	3	3	1	4	X	2	1	X	X	2	2	2	4	3
Water	1	2	1	2	X	2	1	4	4	1	1	1	1	1
Wemco C	1	1	4	1	X	2	4	1	1	4	4	4	1	4
Whiskey and Wines	1	1	1	1	X	1	1	4	4	1	1	1	1	1
White Liquor	1	1	1	1	1	1	X	X	X	X	X	X	X	X
White Oil	1	1	4	1	X	2	4	1	1	4	4	4	1	4

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## Chemical Compatibility Chart

Fluid Name	Nitrile	HNBR	EPDM	Fluorocarbon	Aflas®	Neoprene®	SBR	Polyacrylate	Polyurethane	Butyl	Natural	Hypalon®	Fluorosilicone	Silicone
White Pine Oil	2	2	4	1	X	4	4	X	X	4	4	4	1	4
Wolmar Salt	1	1	1	1	X	2	1	2	1	1	1	1	1	1
Wood Alcohol	1	1	1	4	X	1	1	4	4	1	1	1	1	1
Wood Oil	1	1	4	1	X	2	4	1	3	3	4	3	2	4
Xenon	1	1	1	1	X	1	1	1	1	1	1	1	1	1
Xylene	4	1	4	1	X	4	4	4	4	4	4	4	1	4
Xylidenes-Mixed-Aromatic Amines	3	3	1	4	X	4	4	4	4	4	4	4	4	4
Xylol	4	4	4	1	X	4	4	4	4	4	4	4	1	4
Zeolites	1	1	1	1	X	1	1	X	X	1	1	1	1	X
Zinc Acetate	2	2	1	4	X	2	4	4	4	1	1	4	4	4
Zinc Ammonium Chloride	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Chloride	1	1	1	1	X	1	1	4	X	1	1	1	1	X
Zinc Chromate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Cyanide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Diethyldithiocarbamate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Dihydrogen Phosphate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Fluorosilicate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc Hydrosulfite	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Naphthenate	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc Nitrate	1	1	1	1	X	X	1	4	X	1	1	1	1	X
Zinc Oxide	1	1	1	1	X	X	1	4	X	1	1	1	1	X
Zinc Phenolsulfonate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Phosphate	1	1	1	1	X	1	1	4	1	1	1	1	1	1
Zinc Salts	1	1	1	1	X	1	1	4	1	1	1	1	1	1
Zinc Silicofluoride	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Zinc Stearate	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zinc Sulfate	1	1	1	1	X	1	2	4	4	1	2	1	1	1
Zinc Sulfide	3	3	1	3	X	1	1	4	4	1	1	1	1	2
Zirconium Nitrate	1	1	1	1	X	1	2	4	4	1	2	1	1	1

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