



Characteristics and resistance information for rubber compounds

ASTM REF.	COMMON NAME	COMPOSITION	COMPOSITION
NBR	Nitrile (Buna-N)	Nitrile butadiene	<ul style="list-style-type: none"> • Excellent oil resistance • Moderate resistance to aromatic hydrocarbons • Good physical properties
EPDM	EPDM	Ethylene propylene diene terpolymer	<ul style="list-style-type: none"> • Excellent ozone and weather resistance • Good chemical resistance • Good heat and steam resistance • Poor resistance to petroleum-based fluids
EPM	EPR	Ethylene propylene copolymer	<ul style="list-style-type: none"> • Excellent chemical resistance • Good ozone and weather resistance • Excellent heat and steam resistance • Poor resistance to petroleum-based fluids
SBR	SBR	Styrene butadiene	<ul style="list-style-type: none"> • Good physical properties • Good abrasion resistance • Poor resistance to petroleum-based fluids
CSM	Hypalon®	Chloro-sulfonated polyethylene	<ul style="list-style-type: none"> • Excellent ozone and weather resistance • Good heat and abrasion resistance • Poor resistance to petroleum-based fluids
NR	Natural rubber	Polyisoprene	<ul style="list-style-type: none"> • Excellent abrasion and acid resistance • Good physical properties • Poor resistance to petroleum-based fluids
CR	Neoprene®	Chloroprene	<ul style="list-style-type: none"> • Good weather and flame resistance • Good abrasion resistance • Good resistance to petroleum-based fluids
FPM-FKM	Viton	Fluoropolymer	<ul style="list-style-type: none"> • Excellent high temperature resistance • Excellent chemical resistance except for esters and ketones • Good resistance to petroleum-based fluids
IRR	Butyl	Isobutylene Isoprene	<ul style="list-style-type: none"> • Excellent oil resistance • Good heat resistance • Low permeability • Poor oil resistance
UHMW-PE	Ultra-High molecular weight polyethylene	Polyethylene	<ul style="list-style-type: none"> • Excellent chemical resistance • Excellent abrasion resistance • Moderate heat resistance • FDA accepted material

Flexati Engineered Products Chemical Resistance Charts

Ratings and Definitions

This chart is to be used as general guideline only. Unless otherwise specified, ratings applied to the rubber compounds are based on fully concentrated or saturated solutions at ambient temperature of 21°C (70°F) under normal service conditions. The degree of resistance of a rubber compound to a specific chemical depends on many variables such as working temperature, concentration and stability of the chemical, length of exposure, etc. Combination of above-mentioned factors may affect product performance and cause degradation of the product. Also note for a specific compound many grades of polymers are available which can change the compound's chemical resistance. If and when in doubt before using a specific product please contact your FLEXATI Sales representative for additional information.

CHEMICAL RESISTANCE RATING			
E	Excellent	C	Acceptable
G	Good	X	Unsatisfactory
F	Fair	N	No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Absorpton Oil	X	X	G	E	X	G	X	G	G
Acetal	C	C	C	X	G	C	C	G	G
Acetaldehyde	C	X	F	X	E	C	G	E	G
Acetamide	C	C	G	G	E	G	E	E	E
Acetate Solvents	C	X	X	X	C	X	C	E	E
Acetic Acid %10	X	X	G	X	G	G	G	E	G
Acetic Acid %30	X	X	C	G	G	G	G	E	E
Acetic Acid %50	X	X	C	C	G	X	G	E	G
Acetic Acid, Glacial	X	X	C	X	G	X	X	G	G
Acetic Aldehyde	X	N	N	N	G	X	E	E	E
Acetic Anhydride	X	X	G	X	E	G	E	E	G
Acetic Ester (Ethyl Acetate)	X	X	X	X	G	X	G	E	E
Acetic Ether (Ethyl Acetate)	X	X	X	X	G	C	G	E	E
Acetic Oxide (Acetic Anhydride)	X	X	X	X	C	G	G	E	E
Acetone	C	C	F	X	E	F	E	E	E
Acetone Cyanohydrin	X	X	N	N	G	N	G	E	G
Acetophenone	C	X	X	X	E	X	E	G	G
Acetyl Acetone	X	X	X	X	G	X	E	E	E
Acetyl Chloride	X	X	X	X	C	X	C	G	G
Acetyl Oxide	X	N	N	X	E	G	E	E	G
Acetyl-P-Toluidine	X	X	N	N	X	N	X	E	E
Acetylene	E	E	G	E	E	E	E	E	E
Acetylene Dichloride (Dichlorethylene)	X	X	N	N	X	N	X	X	X
Acetylene Tetrachloride	X	X	N	N	X	N	X	X	X
Acrolein (hydroquinine inhibited)	N	N	N	N	G	N	X	E	E
Acrylamide	N	N	N	X	N	N	X	E	E
Acrylates (HEA or HPA)	N	N	N	N	N	N	X	E	E
Acrylic Acid	N	N	N	N	N	N	N	N	G
Acrylonitrile	G	X	X	X	X	X	X	G	G
Adipic Acid	N	G	G	G	E	E	G	N	N
Aeroshell 7A. 17 Grease	N	N	G	E	N	N	N	N	N
Air	E	E	E	E	E	E	E	E	E
Air, 300°F	F	X	X	X	X	N	X	X	N
Aircraft Hydraulic Oil AA	N	N	N	E	X	N	X	E	N
Alachlor (Lasso)	E	N	N	N	N	N	N	E	N
Alcohols, Aliphatic	E	G	E	E	E	E	E	E	E
Alcohols, Aromatic	C	X	C	C	X	X	X	E	E
Alkaline Liquid	N	N	N	N	E	E	N	E	N
Alk-Tri (Trichloroethylene)	X	N	N	X	X	X	N	E	N
Alkyaryl Polyether	N	N	N	N	N	N	N	N	E
Alkyaryl Sulfonate	E	N	N	E	N	X	N	E	E
Allyl Alcohol	E	G	E	E	E	E	E	E	E
Allyl Bromide	X	X	X	X	X	X	X	G	G
Allyl Chloride	X	X	X	X	X	X	X	G	G
Alpha Methylstyrene	X	X	X	X	X	N	X	G	G
Alpha Olefin	E	N	N	N	N	N	N	N	N
Alum (Ammonium Potassium Sulfate)	E	E	E	E	E	E	E	E	E
Aluminum	E	E	E	E	E	E	E	E	E
Aluminum Acetate	E	E	N	N	N	N	N	N	N
Aluminum Alkyl	X	X	X	X	X	X	X	X	X
Aluminum Bromide	E	E	E	E	E	E	E	E	N
Aluminum Chloride	E	E	E	E	E	E	E	E	E
Aluminum Chlorohydrate Solution (to 50%)	N	N	N	E	E	N	E	E	E
Aluminum Flouride	E	E	E	E	E	E	E	E	E
Aluminum Formate	X	N	N	X	G	X	N	E	E
Aluminum Hydroxide	E	E	E	E	E	G	E	E	E
Aluminum Nitrate	E	E	E	E	E	E	E	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Aluminum Phosphate	E	E	E	E	E	E	E	E	E
Aluminum Salts	E	E	E	E	E	E	E	N	N
Aluminum Sulfate	G	E	E	E	E	E	E	E	E
Aminobenzene	N	N	N	N	N	N	N	N	G
Aminodimethylbenzene	N	N	N	N	N	N	N	N	N
Aminoethanol	G	N	N	G	E	G	N	E	E
Aminoethylethanolamine	N	N	N	N	E	N	G	G	E
Ammonia, Anhydrous	E	C	E	G	E	G	E	E	E
Ammonia Cupric Sulfate	X	N	N	E	E	E	E	E	E
Ammonia, Liquid	G	G	E	E	E	E	E	E	E
Ammonia, in Water	G	G	G	G	G	G	E	E	E
Ammonium Acetate	E	E	G	E	E	E	E	E	E
Ammonium Bicarbonate	E	N	N	N	N	N	N	N	N
Ammonium Bisulfate (50%)	N	N	N	N	G	N	G	G	G
Ammonium Carbonate	E	E	E	C	E	E	E	E	E
Ammonium Chloride	E	E	E	E	E	E	E	E	E
Ammonium Fluoride	E	N	N	N	N	N	N	N	N
Ammonium Hydroxide	G	G	E	G	E	G	E	E	E
Ammonium Metaphosphate	E	E	E	E	E	E	E	E	E
Ammonium Nitrate	G	E	E	E	E	E	E	E	E
Ammonium Nitrite	E	E	E	E	E	E	E	E	E
Ammonium Persulfate	E	X	E	X	E	E	G	E	E
Ammonium Phosphate	E	E	E	E	E	E	E	E	E
Ammonium Sulfate	E	E	E	E	E	E	E	E	E
Ammonium Sulfide	E	E	E	E	E	E	E	E	E
Ammonium Sulfite	E	E	E	E	E	E	E	E	E
Ammonium Thiocyanate	E	E	E	E	E	E	E	E	E
Ammonium Thiosulfate	E	E	E	E	E	E	E	E	E
Amyl Acetate	C	X	X	X	G	X	G	X	X
Amyl Acetone	X	X	X	X	G	X	G	E	E
Amyl Alcohol	E	E	E	E	E	E	E	E	E
Amylamine	C	G	X	C	G	C	X	E	E
Amylbenzene	X	X	G	G	X	N	X	G	G
Amyl Borate	X	X	C	E	E	C	X	E	E
Amyl Chloride	X	X	X	X	X	X	X	E	E
Amyl Chloronaphthalene	X	X	X	G	X	X	X	E	E
Amyl Napthalene	X	X	X	X	X	X	X	E	E
Amyl Oleate	X	X	X	X	G	X	G	E	E
Amyl Phenol	X	X	X	X	X	X	X	E	E
Amyl Phthalate	X	N	N	X	E	X	N	E	E
Anethole X	X	X	X	X	X	X	X	G	G
Anhydrous Ammonia	X	X	X	X	X	X	X	X	X
Aniline X	X	X	X	X	E	X	C	E	E
Aniline Dyes	C	C	C	C	G	C	G	E	E
Aniline Hydrochloride	E	C	X	C	C	X	G	E	E
Animal Fats	X	X	G	E	G	F	C	E	E
Animal Gelatin	N	N	E	E	N	N	N	N	E
Animal Grease	X	X	G	G	C	C	G	E	E
Animal Oils	X	X	X	E	G	X	C	E	E
Ansul Ether	X	X	X	C	C	X	C	E	E
Antifreeze (Ethylene)	E	E	E	E	E	E	E	E	E
Antimony Trichloride	X	X	G	G	E	G	G	E	G
Ant Oil	X	X	G	X	X	G	X	E	N
Antimony Pentachloride	X	X	X	X	C	X	C	G	G
Antimony Salts	N	N	N	G	E	N	E	E	N
Aqua Ammonia	G	G	G	G	G	E	E	E	E
Aqua Regia	X	X	X	X	X	C	C	X	G

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Argon	X	X	X	C	G	X	E	N	N
Arguad	E	E	E	E	E	E	E	E	E
Aromatic Hydrocarbons	X	X	X	C	X	X	X	E	E
Aromatic Tar	X	N	N	X	X	X	X	E	E
Arsenic Acid	E	E	E	E	E	E	E	E	E
Arsenic Chloride	X	X	E	C	X	X	G	X	X
Arsenic Trichloride	X	X	E	C	X	X	G	X	X
Asphalt	X	X	G	E	X	X	G	G	G
ASTM Fuel A	X	X	E	E	X	G	X	N	N
ASTM Fuel B	X	X	X	E	X	X	X	N	N
ASTM Fuel C	X	X	X	G	X	X	X	N	N
ASTM Oil No. 1	X	X	E	E	X	G	X	E	E
ASTM Oil No. 2	X	X	G	E	X	F	X	E	E
ASTM Oil No. 3	X	X	G	E	X	F	X	E	E
ASTM Oil No. 4	X	X	X	G	X	X	X	N	N
Automatic Trans. Fluid	X	X	G	E	X	C	X	N	N
Aviation Gasoline	X	X	C	E	X	X	X	E	E
Baltic Types 100, 150, 200, 300, 500	N	N	N	E	X	N	X	E	N
Bardol B	X	X	X	X	X	X	X	E	N
Barium Carbonate	E	E	E	E	E	E	E	E	E
Barium Chloride	E	E	E	E	E	E	E	E	E
Barium Hydroxide	E	E	E	E	E	E	E	E	E
Barium Sulfate	E	E	E	E	E	E	E	E	E
Barium Sulfide	E	E	E	E	E	E	E	E	E
BBP (Butyl Benzyl Phthalate)	X	N	N	X	E	X	N	N	N
Beer	E	E	G	C	E	E	G	N	N
Beet Sugar Liquors	E	E	E	E	E	E	E	E	E
Bellows 80-20 Hydraulic Oil	N	N	N	E	X	N	X	E	N
Benzaldehyde	X	N	N	X	G	X	G	E	E
Benzal Chloride	N	N	N	X	G	N	N	E	E
Benzene (Benzol)	X	X	X	X	X	X	X	E	G
Benzene Sulfonic Acid	X	X	X	N	G	G	N	E	E
Benzidine	E	X	X	G	X	N	X	G	N
Benzine	X	X	G	E	X	X	X	E	E
Benzene Solvent (Ligroin)	X	N	N	E	X	X	X	E	E
Benzoic Acid	G	X	E	X	E	G	G	E	E
Benzoic Aldehyde	X	X	X	X	X	X	X	E	E
Benzophenone	E	N	N	N	N	N	N	E	N
Benzotrichloride	X	X	X	X	X	X	X	G	G
Benzoyl Chloride	X	X	X	X	X	X	X	G	G
Benzyl Acetate	X	X	X	X	G	G	G	E	E
Benzyl Alcohol	G	G	C	X	G	F	G	E	E
Benzyl Benzoate	N	N	N	N	G	N	G	E	N
Benzyl Chloride	X	X	X	X	C	X	X	E	E
Bichromate of Soda	X	X	G	X	E	G	C	E	E
Bismuth Carbonate	E	N	X	N	N	N	N	N	N
Bisphenol A	E	N	N	N	N	N	N	N	N
Bitumastic	X	X	G	G	X	X	X	N	X
Black Sulfate Liquor	G	G	E	G	E	G	E	E	E
Blast Furnace Gas	X	X	G	C	C	G	C	E	E
Bleach	X	X	C	X	X	F	G	E	E
Borax Solution	G	G	E	C	E	E	E	E	E
Bordeaux Mixture	G	G	E	E	E	E	E	E	E
Boric Acid	E	E	E	E	E	E	E	E	E
Brake Fluid (HD-557)	N	E	G	C	G	G	E	N	N
Brine	E	E	E	E	E	E	E	E	E
Bromine	X	X	X	X	X	C	X	X	X

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Bromine Water	X	X	G	C	C	E	C	E	E
Bromobenzene	X	X	X	X	X	X	X	C	C
Bromochloroethane	X	X	N	N	X	X	X	X	X
Bromochloromethane	X	X	X	X	X	X	X	X	X
Bromotoluene	X	X	N	N	X	N	X	N	N
Bubble Bath Compounds	N	N	N	N	N	N	N	N	E
Bunker Oil	X	X	G	E	X	X	X	E	E
Butadiene	X	X	F	X	X	C	X	F	F
Butandiol (Butylene Glycol)	N	N	N	N	N	N	N	E	G
Butane	X	X	E	E	E	G	X	E	N
Butanoic Acid	N	N	N	N	N	N	N	N	N
Butanol	E	E	E	E	E	E	E	E	E
Butraldehyde (Butanal)	X	X	X	X	X	X	X	G	N
Butter (Non FDA)	C	C	G	E	E	E	G	E	E
Butyl Acetate	X	X	X	X	G	X	C	G	G
Butyl Acetoacetate	X	N	N	X	X	X	N	E	E
Butyl Acrylate	X	X	X	X	X	X	X	G	G
Butyl Alcohol	E	E	E	E	E	E	E	E	E
Butyl Aldehyde	X	N	N	X	X	X	X	E	E
Butylamine	G	C	X	C	C	C	C	E	E
Butyl Benzene	X	X	X	X	X	X	X	E	E
Butyl Benzyl Phthalate (BBP)	X	N	N	X	E	X	N	N	N
Butyl Bromide	X	X	X	X	X	X	X	G	G
Butyl Butyrate	X	X	X	X	C	X	G	G	G
Butyl Carbitol	X	X	G	G	E	E	E	E	E
Butyl Cellosolve	X	X	G	G	E	G	E	E	E
Butyl Chloride	X	X	X	X	C	X	C	G	G
Butylate	N	N	N	N	N	N	E	N	E
Butylene	X	X	G	G	C	G	C	E	E
Butyl Ether	X	X	G	G	C	G	C	E	E
Butyl Ethyl Acetaldehyde X	X	X	X	X	C	X	X	E	E
Butyl Ethyl Ether X	X	X	X	X	C	G	C	E	E
Butyl Formate	X	N	X	X	N	N	N	N	N
Butyl Mercaptan (2-Methyl - 2 Butanathiol)	X	X	N	X	X	N	X	E	N
Butyl Oleate	X	X	X	X	G	X	G	E	E
Butyl Oxiol tm for EG Monobutyl Ether	N	N	N	N	N	N	E	E	N
Butyl Phthalate	X	X	X	X	C	X	C	E	E
Butyl Stearate	X	X	X	G	C	X	C	E	E
Butylene Glycol	N	N	N	N	N	N	N	E	G
Butyraldehyde	X	N	N	X	G	X	X	E	E
Butyric Acid	G	G	X	N	G	X	G	E	E
Butyric Anhydride	C	X	X	C	C	G	C	E	E
Cadmium Acetate	X	N	N	X	G	N	N	N	N
Calcine Liquor (Radioactive Waste)	N	N	N	E	E	N	E	E	N
Calcium Acetate	C	X	X	X	E	X	E	E	E
Calcium Aluminate	E	N	E	E	E	E	N	N	N
Calcium Aresenate	N	N	N	N	N	N	N	E	N
Calcium Bisulfate	E	E	E	E	E	E	E	E	E
Calcium Bisulfide	G	G	E	E	E	E	N	E	N
Calcium Bisulfite	C	E	E	E	G	E	C	E	E
Calcium Bromide Solution N	N	N	N	N	N	N	N	E	E
Calcium Bichromate	N	N	N	N	E	F	N	G	F
Calcium Carbonate	E	E	E	E	E	E	E	E	E
Calcium Chlorate	G	G	E	E	G	E	G	E	N
Calcium Chloride	E	E	E	E	E	E	E	E	E
Calcium Hydroxide	E	G	E	E	E	G	E	E	E
Calcium Hydrosulfide	G	G	E	E	E	E	N	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Calcium Hypochlorite	X	X	X	X	G	F	G	G	G
Calcium Metasilicate	E	G	N	G	G	G	N	N	N
Calcium Nitrate	E	E	E	E	E	E	E	E	E
Calcium Silicate	E	G	N	G	G	G	N	N	N
Calcium Stearate	E	N	N	N	N	N	N	N	N
Calcium Sulfate	E	E	E	E	E	E	E	E	E
Calcium Sulphydrate	E	E	E	E	E	E	E	E	E
Calcium Sulfide	E	E	E	E	E	E	E	E	E
Calcium Sulfite	E	E	E	E	E	E	E	E	E
Caliche Liquor (Crude Sodium Nitrate)	E	E	G	C	E	E	E	E	E
Camphene (Liquid above 115°F)	N	N	N	N	N	X	X	N	N
Cane Sugar Liquors (Non F.D.A.)	E	E	E	E	E	E	E	E	E
Caproic Acid	N	N	N	N	N	N	G	E	E
Caprolactam	E	N	N	N	N	N	N	N	N
Caprylic Acid	X	N	N	X	G	G	N	E	E
Carbamates	X	X	X	X	X	X	X	E	N
Carbitol	X	X	G	G	E	G	G	E	E
Carbitol Acetate	X	X	X	X	G	X	G	E	E
Carbolic Acid (Phenol)	X	X	C	X	G	C	C	E	E
Carbon Bisulfide	N	N	N	N	N	N	N	N	N
Carbon Dioxide	E	E	E	E	E	E	E	E	E
Carbon Disulfide	X	X	X	X	X	X	X	E	C
Carbonic Acid	E	E	E	E	E	E	E	E	E
Carbon Monoxide	E	E	E	E	E	E	E	E	E
Carbon Tetrachloride	X	X	X	C	G	X	G	C	C
Carbon Tetrafluoride	X	X	X	C	X	X	X	C	C
Carbonyl Chloride	X	X	X	X	E	X	X	X	X
Casein	N	N	N	N	E	N	N	N	N
Castor Oil	C	X	G	E	G	C	G	E	E
Caustic Potash (Potassium Hydroxide)	E	G	G	E	E	E	E	E	E
Caustic Soda (Sodium Hydroxide)	E	G	G	G	E	G	E	E	E
Cellosize	X	N	N	X	E	E	E	E	E
Cellsolve	X	X	E	G	G	G	G	E	E
Cellulose Acetate	C	X	C	X	G	C	G	G	G
Cellulube	C	X	X	X	G	X	E	E	E
Cement, Portland	N	N	N	N	E	N	N	N	E
China Wood Oil (Tung Oil)	X	X	G	E	G	G	G	E	E
Chlordane	N	N	X	X	N	X	X	E	N
Chlorinated Napthalene	X	X	X	X	X	X	N	N	N
Chlorinated Solvents	X	X	N	N	X	X	X	X	X
Chlorine Dioxide	X	X	X	X	X	C	X	G	G
Chlorine Gas (dry)	C	C	X	C	C	G	C	G	G
Chlorine Trifluoride	N	N	N	N	N	N	X	N	N
Chlorine, Water Solutions (2%)	C	X	X	X	C	G	C	E	E
Chloroacetic Acid	G	X	X	X	C	X	C	E	E
Chloroacetone	X	X	X	X	G	G	X	E	E
Chlorobenzene	X	X	X	X	X	X	X	G	G
Chlorobenzol	X	N	N	X	X	X	X	E	E
Chlorobromomethane	X	X	X	X	X	X	X	G	X
Chlorobutane	X	X	X	X	X	X	X	G	G
Chlorobutadiene	X	X	X	X	X	X	X	G	G
Chloroethylbenzene	X	X	X	X	X	X	X	E	E
Chloroform	X	X	X	X	X	X	X	G	G
Chloronapthalene	X	X	X	X	X	X	X	N	N
Chlorinated Hydrocarbons	X	X	X	X	X	X	X	G	G

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Chloropentane	X	X	C	X	X	X	X	E	E
Chlorophenol	X	X	X	X	X	X	X	G	G
Chloropropanone	X	X	X	X	C	X	C	G	G
Chlorosulfonic Acid	X	X	X	X	X	C	X	G	G
Chlorothene (Trichloroethane)	X	X	X	X	X	X	X	G	G
Chlorotoluene	X	X	X	X	X	X	X	G	G
Chlorox	G	G	G	N	G	G	N	G	E
Chlorpyrifos	N	N	N	N	N	N	X	N	N
Chrome Alum	E	E	E	E	E	E	E	N	N
Chrome	X	X	X	X	X	X	G	N	N
Chromic Acid	X	X	X	X	X	E	C	E	E
Citgo FR Fuels	N	N	X	E	E	N	N	E	N
Citric Acid	E	E	G	G	E	E	E	E	E
Coal Oil	X	X	G	E	X	X	X	E	E
Coal Tar	X	X	G	E	X	G	G	E	E
Coal Tar Naptha	X	X	F	E	X	X	X	E	E
Coal Tar Pitch	X	X	G	G	X	G	X	N	N
Cobalt Chloride	E	E	E	E	E	E	E	E	E
Coconut Oil	X	X	G	E	G	G	C	E	E
Cod Liver Oil	X	X	G	E	E	G	E	E	E
Coke Oven Gas	X	X	X	X	F	X	X	E	E
Copper Arsenate	E	E	E	E	E	E	E	E	E
Copper Chloride	E	E	E	E	E	E	E	E	E
Copper Cyanide	E	E	E	E	E	E	E	E	E
Copper Hydrate	X	N	N	G	E	G	N	E	E
Copper Hydroxide	F	G	N	N	E	G	N	E	E
Copper Nitrate	E	E	E	E	E	E	E	E	E
Copper Nitrite	E	E	E	E	E	E	E	E	E
Copper Sulphate	F	E	E	E	E	E	E	E	E
Copper Sulphide	C	E	E	E	E	E	E	E	E
Corn Oil	X	X	C	E	E	G	C	E	E
Corn Syrup	G	G	G	G	G	G	G	E	N
Cottonseed Oil	X	X	C	C	C	G	C	C	G
Creosols	X	N	N	X	E	X	X	E	E
Creosote	X	N	N	X	X	X	X	E	E
Creosote (Wood)	X	X	C	G	X	C	X	E	E
Creosote (Coal Tar)	X	X	C	G	X	C	X	E	E
Cresols	X	X	C	C	X	C	X	E	E
Cresylic Acid	X	X	C	C	X	C	X	E	E
Crotonaldehyde	X	X	X	X	E	X	C	E	E
Crotonic Acid	X	X	N	G	E	N	G	E	E
Crude Oil	X	X	F	E	X	X	X	E	E
Crude Wax	N	N	N	G	G	N	N	G	N
Cyrolite	X	X	G	E	X	X	X	N	N
Cumene	X	X	X	C	C	X	X	E	E
Cupric Arsenate	G	G	N	N	N	G	N	E	N
Cupric Carbonate	C	C	G	G	E	G	E	E	E
Cupric Chloride	C	C	G	E	E	E	E	E	E
Cupric Cyanide	G	G	G	G	G	G	G	E	N
Cupric Hydroxide	N	N	N	N	N	N	N	N	N
Cupric Nitrate	C	C	G	E	E	E	E	E	E
Cupric Nitrite	C	C	G	E	E	E	E	E	E
Cupric Sulfate	F	E	G	E	E	E	E	E	E
Cutting Oil	X	X	G	E	X	X	X	G	N
Cutting Oil (Sulfur Base)	N	N	X	E	N	N	N	N	N
Cutting Oil (Water Solutions)	N	N	X	E	N	N	N	N	N
Cyanisde, Copper	G	G	G	G	G	G	G	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Cyanide Mercuric	G	G	E	G	G	E	G	E	N
Cyanide, Silver	N	N	E	N	N	N	N	E	N
Cyanide, Sodium	E	E	E	E	E	E	E	E	N
Cyclohexane	X	X	X	G	X	X	X	E	E
Cyclohexanol	X	X	G	C	X	X	X	E	E
Cyclohexanone	X	X	X	X	X	X	X	E	E
Cyclohexamine	N	X	N	N	E	N	E	N	N
Cyclopentane	X	X	G	G	X	X	X	E	E
Cyclopentanol	X	X	N	N	X	X	N	E	E
Cyclopentanone	X	N	N	X	X	X	N	N	N
P-Cymene	X	X	X	C	X	X	X	E	E
DDT in Kerosene	X	X	G	E	F	X	X	E	E
Decaline	X	X	X	X	X	X	X	E	E
Decanal	X	N	N	X	X	X	N	N	N
Decanol	X	N	X	E	X	G	N	N	N
Decane	X	X	X	G	X	X	X	E	E
Decyl Alcohol	X	N	N	E	E	E	E	E	E
Decyl Aldehyde	X	N	N	X	X	X	N	N	N
Decyl Butyl Phthalate	X	N	N	X	E	X	N	E	E
Deicing Fluid	N	N	E	E	E	G	E	E	E
Denatured Alcohol	E	E	E	E	E	E	E	E	E
Detergent, Water Solutions	G	G	G	E	G	G	E	E	E
Developing Fluid (pictures)	E	G	E	E	E	E	G	N	N
Dextrin	N	N	E	E	X	N	X	X	N
Dextron	N	N	N	E	X	N	X	X	N
DHSO Butylene	X	X	X	G	X	X	X	E	N
Diacetone Alcohol	X	X	G	X	E	G	G	E	E
Diammonium Phosphate	N	N	N	N	N	N	N	N	N
Diamylamine G	G	C	E	G	E	C	C	E	E
Diamyl Naphthalene	X	X	N	N	X	X	N	E	N
Diamyl Phenol	X	N	N	X	X	X	X	E	E
Diamylene	X	N	N	X	X	X	N	E	E
Diazonin	E	E	N	N	N	N	E	N	N
Dibenzyl Ether	X	X	X	X	G	X	X	E	E
Dibenzyl Sebacate	C	X	X	X	G	X	G	E	E
Dibromobenzene	X	X	X	X	X	X	X	G	G
Dibromomethane	X	X	X	X	X	X	X	G	G
Dibutyl Ether	X	X	X	X	X	X	C	E	E
Dibutylamine	G	F	G	E	F	F	G	E	E
Dybutylphthalate	X	X	X	X	G	X	E	E	E
Dibutyl Sebacate	X	X	X	X	G	X	G	G	G
Dicalcium Phosphate	E	E	E	E	E	E	E	E	E
Dicamba	N	N	N	N	N	N	E	E	E
Dichloroacetic Acid	X	N	N	X	X	X	X	E	E
Dichloroaniline	N	X	X	X	X	N	X	N	N
Dichlorobenzene	X	X	X	X	X	X	X	G	G
Dichlorobenzyl	X	X	X	X	X	X	X	G	N
Dichlorobutane	X	X	X	X	X	X	X	E	E
Dichlorodifluorometh	X	X	E	G	X	X	X	E	E
Dichloroethane	X	X	X	X	C	X	X	E	C
Dichloroethyl Ether	X	X	X	X	X	X	X	E	E
Dichloroethylene	X	X	X	X	C	X	X	E	X
Dichlorohexane	X	X	X	X	X	X	X	E	E
Dichloroisopropyl Ether	X	X	X	X	X	X	X	E	E
Dichloromethane	X	X	X	X	X	X	X	E	E
Dichloropentane	X	X	X	X	X	X	X	E	E
Dichloropropane	X	X	N	N	X	X	N	E	E
Dichlorotoluene	N	N	N	N	N	N	N	N	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Dicyclohexylamine	N	N	N	N	N	N	N	N	N
DIDA (Diisodecyl Adipate)	X	N	N	X	E	X	N	N	N
Dieldrin Xylene	X	X	X	X	X	X	X	E	E
Dieidrin in Xylene	X	X	G	G	X	X	X	E	E
Diesel Fuel	X	X	G	E	X	X	X	E	E
Diesel Oil	X	X	G	E	X	C	X	E	E
Diethanol Amine	G	G	G	G	E	F	F	E	E
Diethyl Benzene	X	X	X	X	X	X	X	E	E
Diethyl Carbonal	E	N	N	E	E	E	N	E	E
Diethyl Ether	X	X	C	G	X	X	X	E	E
Diethyl Ketone	F	X	N	N	G	X	N	E	E
Diethylphthalate	X	X	X	X	E	X	G	E	E
Diethyl Oxalate	C	X	X	X	C	X	E	E	E
Diethyl Sebacate	X	X	X	X	E	X	C	E	E
Diethyl Sulfate	X	X	X	X	G	X	G	E	E
Diethyl Sulfide	N	N	N	N	N	N	N	E	N
Diethyl Triamine	G	C	G	G	E	C	G	E	E
Diethylacetaldehyde	N	N	N	N	N	N	N	E	N
Diethylamine	N	N	N	N	N	N	N	N	G
Diethylene Dioxide	X	X	X	X	G	X	G	E	N
Diethylene Glycol	E	E	E	E	E	E	E	E	E
Diethylene Glycol	N	N	N	N	N	N	E	E	N
Diethylene Glycol	N	N	N	N	N	N	E	E	N
Diethylene Glycol	N	N	N	N	N	N	E	E	N
Diethylenetriamine	G	G	C	G	E	C	E	E	E
Dihydroxyacetone	N	N	N	N	N	N	E	E	N
Dihydroxydiethyl Ether	E	E	E	E	E	N	E	E	E
Dihydroxyethyl Amine	G	C	G	G	E	C	G	E	E
Dihydroxyethyl Ether	E	E	G	E	E	E	G	E	E
Diisobutylene	X	X	G	E	X	X	X	E	E
Diisobutyl Ketone	X	X	X	X	G	X	G	E	E
Diisobutyl Phenol	E	N	N	N	N	N	N	N	N
Diisocyanate	X	X	X	X	X	X	X	X	X
Diisooctyl Phthalate	X	N	N	X	E	X	E	N	N
Diisooctyl Adipate	X	N	N	X	E	X	N	E	E
Diisodecyl Adipate	X	X	E	X	X	C	E	E	E
Diisodecyl Phthalate	X	X	X	X	E	C	E	E	E
Diisooctyl Adipate	X	X	X	X	E	X	E	E	E
Diisooctyl Phthalate	X	X	X	X	E	C	E	E	E
Diisopropanolamine	G	N	N	G	E	N	N	N	N
Diisopropyl Benzene	X	X	X	C	X	X	X	E	E
Diisopropyl Ether	X	X	X	G	X	X	X	E	E
Diisopropyl Ketone	X	X	X	X	E	X	E	E	E
Diisopropylidene Acetone	X	X	X	X	G	X	G	E	N
Dilauryl Ether	X	X	X	C	X	C	X	E	E
Dimethyl Aniline	X	X	X	X	G	X	X	E	N
Dimethyl Benzene	X	N	N	X	X	X	X	E	E
Dimethyl Carbonal	E	N	N	E	E	E	E	E	E
Dimethyl Ether	X	X	X	X	G	X	E	E	E
Dimethyl Formamide	N	N	N	N	N	N	G	E	N
Dimethyl Ketone	G	F	F	X	E	F	E	E	E
Dimethyl Phenol	X	N	N	X	X	X	X	E	E
Dimethyl Phthalate	X	X	X	X	E	X	G	E	E
Dimethyl Sulfate	X	X	X	X	G	X	X	E	E
Dimethyl Sulfide	X	X	X	X	C	X	X	G	G
Dimethyl Terephthalate	N	X	X	X	X	N	N	N	N
Dimethylamine	G	F	G	G	E	F	E	E	E
Dimethylaminoethanol	N	N	N	N	N	N	G	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Dimethylaniline	X	X	X	X	X	X	C	G	G
Dimethylbenzene	X	X	X	X	X	X	X	E	E
Dimethylcarbinol	G	G	G	E	E	G	E	E	E
Dimethylformamide (DMF)	C	C	C	X	C	C	C	E	E
DMP (Dimethylaminoethyl Phenol)	N	N	N	N	N	N	N	E	N
Dinitrobenzene	X	X	C	X	C	X	C	E	E
Dinitrotoluene	X	X	X	X	X	X	X	E	E
Diocetyl Adipate (DOA)	X	X	X	X	E	X	G	E	E
Diocetylamine	G	G	X	G	E	C	G	E	E
Diocetyl Phosphite	N	N	N	N	N	N	X	E	N
Diocetyl Phthalate (DOP)	X	X	X	X	G	X	G	E	E
Diocetyl Sebacate (DOS)	X	X	X	X	G	X	G	E	E
Dioxane	X	X	X	X	G	X	G	E	E
Dioxolane	X	X	X	X	C	X	G	E	E
Dipentene	X	X	N	X	N	N	X	G	N
Dipentene (Limonene)	X	X	X	X	C	X	X	E	E
Diphenyl (Biphenyl)	X	X	X	X	X	X	X	E	E
Diphenyl Oxide (Phenyl Ether)	X	X	X	X	X	C	X	E	E
Diphenyl Phthalate	X	N	N	X	E	X	N	E	E
Dipropylene Glycol	E	N	N	E	E	N	N	E	E
Dipropyl Ketone	X	X	X	X	G	X	G	E	E
Dipropylamine	G	G	G	G	E	C	E	E	E
Dirco Oils	N	N	N	E	X	N	X	E	N
Disodium Phosphate	E	E	E	E	E	E	E	E	E
Distillate Fuel Oil	N	N	N	N	N	N	X	G	N
Divinyl Benzene	X	X	X	X	X	X	X	E	E
Dodecyl Benzene	X	X	X	X	X	X	X	E	E
Dodecylphenol	N	N	N	N	N	N	E	E	N
Dodecyl Toluene	X	X	X	X	X	X	X	E	E
Dolomite	N	N	E	N	N	E	G	N	N
Dowfume W 40, 100%	X	X	C	X	X	C	C	G	G
Dow-Per (perchloroethylene)	X	X	X	C	X	X	X	E	E
Dowtherm Oil, A and E	X	X	X	X	X	C	X	E	E
Dowtherm S. R. I.	E	E	E	E	E	E	E	E	E
Dry Cleaning	X	X	X	C	X	X	X	E	G
Duro Oils	N	N	N	E	X	N	X	E	N
EDTA (Ethylenediamine tetraacetic Acid)	N	N	N	N	N	N	E	E	N
Emulsion (Oil in Water)	N	N	N	N	N	N	E	E	E
Enamels	N	N	N	N	N	N	X	E	N
Epichlorohydrin	X	X	X	X	C	C	G	G	G
Epoxy Resin	N	N	E	N	G	N	E	N	N
Essential Oils	X	X	G	E	N	N	X	G	N
Ethanoic Acid	N	N	N	N	N	N	N	N	N
Ethanol (Grain Alcohol)	X	X	X	X	X	X	X	N	G
Ethanolamine	G	G	G	G	E	C	E	C	E
Ethers	X	X	X	X	F	F	C	E	E
Ethyl Acetate	X	X	X	X	G	X	C	E	E
Ethyl Acetoacetate	X	X	X	X	G	X	G	E	E
Ethyl Acrylate	X	X	X	X	C	X	X	G	G
Ethyl Alcohol	X	X	X	X	X	X	X	N	G
Ethyl Aldehyde	F	N	N	N	E	E	N	E	E
Ethyl Aluminum Dichloride 90°F	X	N	N	X	X	X	N	N	N
Ethyl Benzene	X	X	X	F	X	X	X	G	G
Ethyl Benzoate	X	X	C	G	G	C	G	E	E
Ethyl Bromide	X	X	X	X	X	X	X	G	N
Ethyl Butanol	E	E	E	E	E	E	E	E	E
Ethyl Butyrate	X	X	X	X	G	N	N	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Ethyl Butyl Acetate	X	N	N	X	E	G	N	E	E
Ethyl Butyl Alcohol	E	E	E	E	E	E	E	E	E
Ethyl Butyl Amine	G	C	G	G	E	C	G	E	E
Ethyl Butyl Ketone	X	X	X	X	G	X	G	E	E
Ethyl Butyraldehyde	X	N	N	X	G	X	N	E	E
Ethyl Cellulose	G	G	G	G	G	G	G	E	E
Ethyl Chloride	F	F	F	F	X	X	X	E	G
Ethyl Chloroformate	N	N	N	X	N	N	X	G	G
Ethyl Dichloride	X	X	X	X	X	X	X	G	G
Ethylene	X	X	G	E	X	C	X	E	E
Ethyl Ether	X	X	X	C	C	X	X	E	E
Ethyl Ether Acetate	N	N	N	X	N	N	G	E	N
Ethyl Formate	X	N	N	X	G	X	G	E	E
Ethyl Hexoic Acid	X	N	N	X	X	G	N	E	E
Ethyl Hexyl Acetate	X	N	N	X	E	G	N	E	E
Ethyl Iodine	X	N	X	X	X	X	X	N	N
Ethyl Isobutyl Ether	X	N	N	G	X	G	X	E	E
Ethyl Isobutyrate	X	N	X	X	X	N	X	E	N
Ethyl Mercaptan	X	X	X	X	X	X	X	E	N
Ethyl Pentachlorobenzene	X	X	X	X	X	X	X	E	N
Ethyl Phthalate	X	X	N	X	G	N	N	E	N
Ethyl Propionate	X	N	X	X	X	N	X	N	N
Ethyl Silicate	G	G	E	E	N	N	G	E	N
Ethylamine	F	F	N	N	G	F	N	N	E
Ethylbutanol	N	N	E	E	E	G	E	E	E
Ethylene Bromide	X	X	X	X	X	X	X	G	G
Ethylene Chloride	X	X	X	X	X	X	X	G	G
Ethylene Chlorohydrin	N	N	X	X	G	N	X	E	N
Ethylene Diamine	G	G	E	E	E	F	E	E	E
Ethylene Dibromide	X	X	X	X	X	X	X	G	F
Ethylene Dichloride	X	X	X	X	X	X	X	G	G
Ethylene Glycol	E	E	E	E	E	E	E	E	E
Ethylene Glycol Monoethylether	N	N	N	N	N	N	E	E	N
Ethylene Glycol Monoethylether Acetate	N	N	N	N	N	N	E	E	N
Ethylene Glycol Monomethyl Ether	N	N	N	N	N	N	E	E	N
Ethylene Glycol N-Butyl Ether	N	N	N	N	N	N	E	E	N
Ethylene Oxide	X	X	X	X	X	X	C	C	C
Ethylenediaminetetraacetic Acid (EDTA)	N	N	N	N	N	N	E	E	N
Ethylene Trichloride (trichloroethylene)	X	X	X	X	C	X	X	G	G
Ethyl Formate	X	X	X	X	G	X	C	E	E
Ethyl Hexanol	E	E	E	E	E	E	E	E	E
Ethyl Methyl Ketone	C	X	X	X	G	X	G	E	E
Ethyl Oxalate	E	E	X	X	E	X	G	E	E
Ethyl Propyl Ether	X	X	X	X	X	X	X	E	E
Ethyl Propyl Ketone	X	X	X	X	G	X	G	E	E
Ethyl Sulfate	X	X	X	X	G	X	G	E	E
Ethylhexanediol	N	N	N	N	N	N	G	E	N
Ethylhexoic Acid	N	N	N	N	N	N	G	E	N
Ethylhexyl Acetate	N	N	X	X	N	X	E	E	N
Ethylhexyl Acrylate	N	N	N	X	N	N	N	G	N
Ethylhexyl Alcohol	E	E	E	N	E	N	E	E	E
Ethylhexyl Phosphorodieth	X	N	N	E	X	X	X	X	N
EX. TRI (Trichloroethylene)	X	X	X	C	X	X	X	G	G
Fatty Acids	X	X	C	C	X	X	X	E	E
Fatty Alcohol, Blend	E	E	E	E	E	N	E	E	E
Fatty Petroleum Alcohol	N	N	N	E	E	N	E	E	E
Ferric Bromide	E	N	N	N	N	N	N	N	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Ferric Chloride	E	E	E	E	E	E	E	E	E
Ferric Nitrate	N	N	G	G	G	G	G	E	N
Ferric Sulfate	E	E	E	E	E	E	E	E	E
Ferrous Acetate	X	X	X	X	E	X	G	E	E
Ferrous Ammonium Sulfate	E	E	E	E	E	E	E	E	E
Ferrous Chloride	E	E	E	E	E	E	E	E	E
Ferrous Hydroxide	G	C	E	G	E	G	E	E	E
Ferrous Nitrate	N	N	G	G	G	G	G	E	N
Ferrous Sulfate	E	E	E	E	E	E	E	E	E
Fertilizer (Liquid Manure)	E	E	E	E	E	E	E	E	E
Fire-Resistant Hydra-Fluid (Texaco)	N	N	N	E	X	N	X	E	N
Fish Oil	X	X	E	E	E	E	E	E	E
Fluoroboric Acid	E	C	G	E	E	E	E	E	E
Fluorine	X	X	X	X	X	X	X	X	X
Fluosilicic Acid	E	C	G	E	E	E	E	E	E
Formaldehyde	C	C	G	G	E	C	G	E	E
Formalin (37-50% HCHO w/15% MeOH)	X	X	G	G	G	G	E	E	N
Formamide	E	E	E	E	E	E	E	E	E
Formic Acid	G	G	C	X	E	F	E	C	E
FR Fluid D	N	N	N	E	X	N	X	E	N
Freon So 2	N	N	E	N	N	N	E	N	N
Freon 11	X	X	G	E	X	E	X	E	E
Freon 12	X	X	G	G	X	X	X	G	G
Freon13 E	E	E	E	E	E	E	E	E	E
Freon 21	X	X	G	X	X	X	X	E	E
Freon 22	X	X	X	E	E	X	E	E	E
Freon 31	G	G	E	X	E	G	E	E	E
Freon 32	E	E	E	E	E	E	E	E	E
Freon 112	X	X	G	G	X	G	X	E	E
Freon 113	C	G	E	E	X	E	X	E	E
Freon 114	E	E	E	E	E	E	E	E	E
Freon 115	E	E	E	E	E	E	E	E	E
Freon 142b	E	E	E	E	E	E	E	E	E
Freon 152b	E	E	E	E	E	C	E	E	E
Freon 218	E	E	E	E	E	E	E	E	E
Freon C316	E	E	E	E	E	E	E	E	E
Freon C318	E	E	E	E	E	E	E	E	E
Freon 1381	E	E	E	E	E	E	E	E	E
Freon 114B2	X	C	E	G	X	E	X	E	E
Freon 502	E	E	E	G	E	E	E	E	E
Freon TF	C	G	E	E	E	E	E	E	E
Freon T-WD602	C	G	G	E	E	G	G	E	E
Freon TMC	G	C	G	G	G	G	G	E	E
Freon T-P35	E	E	E	E	E	E	E	E	E
Freon TA	E	E	E	E	E	E	E	E	E
Freon TC	X	G	E	E	E	E	G	E	E
Freon BF	X	X	G	G	X	G	X	E	E
Freon MF	X	G	C	E	X	G	X	E	E
Fuel A (ASTM)	X	X	G	E	X	F	X	E	E
Fuel B (ASTM)	X	X	F	E	X	X	X	G	G
Fuel C (ASTM)	X	X	C	G	X	X	X	G	G
Fuel Oil	X	X	G	E	X	E	X	E	E
Fumaric Acid	E	E	G	E	X	G	X	E	E
Furan	X	X	X	X	C	X	C	E	E
Furfural	X	X	C	X	G	G	G	E	E
Furfuryl Alcohol	X	X	C	X	C	C	C	E	E
Fyrguard 150, 200	N	N	N	E	E	N	E	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Fyrquel 15R & O, 220 R&O, 550R&O	N	N	N	E	E	N	E	E	N
Fyrquel 90, 150, 220, 550, 1000	N	N	N	E	E	N	E	E	N
Gallic Acid	E	E	G	G	G	G	G	E	E
Gasohol	X	X	G	G	X	X	X	G	E
Gasoline (oxgenated-blended with MTBE)	X	X	G	G	X	X	X	G	E
Gasoline - Regular	X	X	E	E	X	C	X	E	E
Gasoline - Hi-Test	X	X	G	E	X	X	X	E	E
Gasoline - Lead Free	X	X	G	G	X	X	X	E	E
Gasoline (White)	X	X	G	G	X	X	X	G	N
Gas, Coal	N	N	N	N	N	N	N	N	N
Gas, High Octane	X	X	G	E	X	X	X	E	E
Gelatin	E	E	E	E	E	E	E	E	E
Glacial Acetic Acid	N	N	X	N	X	N	G	E	E
Glauber's salt	E	E	N	N	N	N	E	N	N
Gluconic Acid	X	X	C	C	C	G	C	E	E
Glucose	E	E	G	G	E	E	G	E	G
Glue	E	E	E	E	E	E	E	E	E
Glycerine (Glycerol)	E	E	E	E	E	E	E	E	E
Glycerol Monolaurate	N	N	N	N	E	N	E	E	E
Glycol FR Fluids	N	N	N	E	E	N	E	N	N
Glycols	E	E	E	E	E	E	E	E	E
Glyphosate	N	N	N	N	N	N	E	N	E
Graffinite	X	N	N	E	X	X	X	X	N
Graphite	E	N	N	N	N	N	N	N	E
Grease	X	X	X	X	F	X	E	G	E
Green Sulfate Liquor	E	E	G	E	E	E	E	E	E
Halium	E	E	E	E	E	E	E	N	N
Halowax Oil	X	X	X	X	X	X	X	E	E
Heptachlor in Petroleum Solvents	X	X	G	G	X	X	X	E	E
Heptachlor in Petroleum Solvents	X	X	G	G	X	X	X	E	E
Heptanal (Heptaldehyde)	X	X	X	X	X	X	G	E	E
Heptane	X	X	E	E	X	G	X	E	E
Heptane Carboxylic Acid	X	N	N	X	X	G	N	E	E
Heptanol	E	E	E	E	E	E	E	E	E
Hexaldehyde	N	N	N	N	N	N	E	E	E
Hexane	X	X	E	E	X	F	X	E	E
Hexanol	E	E	E	E	E	E	E	E	E
Hexene	X	X	G	G	X	G	X	E	E
Hexylamine	G	C	G	G	G	C	G	E	E
Hexylene	X	X	G	E	X	X	C	G	G
Hexylene Glycol	E	E	E	E	E	E	E	E	E
Hexyl Methyl Ketone	X	X	X	X	G	X	G	E	E
Hi-Tri (Trichloroethylene)	X	X	X	C	X	X	X	G	G
Honey	E	N	E	E	N	N	E	N	N
Houghto-Safe 1055, 1110, 1115, 1120, 1130	N	N	N	X	E	N	E	E	N
Houghto-Safe 271, 416, 520, 616 & 620	N	N	N	E	E	N	E	E	N
Houghto-Safe 5046	N	N	N	E	E	N	X	E	N
Houghto-Safe 625, 640, & 525 under 100°F	N	N	N	E	E	N	E	E	N
Hy-Chock Oil	N	N	N	E	N	N	N	E	N
Hydrafluid 760 (Texaco & Houghton)	N	N	N	E	X	N	X	E	N
Hydrafluid AZR&O, A, B, AA, C	N	N	N	E	X	N	X	E	N
Hydrasol A (Textile Drying)	N	N	N	E	X	N	X	E	N
Hydraulic Fluid (Petroleum)	X	X	G	E	X	G	X	E	E
Hydraulic Fluid (Phosphate Ester Based)	X	X	X	X	E	X	E	E	E
Hydraulic Fluid (Poly Alkylene Glycol Base)	G	G	E	E	E	E	E	E	E
Hydraulic & Motor Oil	X	X	C	E	X	G	X	E	E
Hydrazine	X	X	X	X	G	X	G	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Hydrazine Hydrate	X	X	X	X	G	X	G	E	N
Hydrazine Solution	X	X	X	X	G	X	G	E	N
Hydrobromic Acid	E	X	X	F	E	E	G	E	E
Hydrochloric Acid 0.37	E	X	X	X	F	X	X	E	E
Hydrochloric Acid 50%	E	C	X	X	G	E	C	E	E
Hydrochloric Acid 100%	G	C	X	X	C	G	C	E	E
Hydrocyanic Acid	G	F	E	F	E	E	C	E	E
Hydro-Drive Oil (Houghton)	N	N	N	E	X	N	X	N	N
Hydrofluoric Acid	X	X	X	X	E	E	X	C	E
Hydrogen Chloride Anhydrous	N	N	N	N	N	N	N	N	N
Hydrogen Bromide Liquid	X	X	N	X	X	N	E	N	N
Hydrogen Dioxide 10%	X	X	N	N	F	N	N	N	G
Hydrogen Fluoride	X	X	N	X	G	N	E	N	N
Hydrogen Gas	X	X	N	X	G	N	E	N	N
Hydrogen peroxide 3%	E	C	G	G	E	E	G	E	E
Hydrogen Peroxide 10%	X	X	C	X	C	C	C	E	E
Hydrogen Peroxide 30%	X	X	X	X	X	X	C	E	E
Hydrogen Peroxide 90%	X	X	X	X	X	X	C	G	G
Hydrogen Sulfide	X	X	E	X	E	G	E	E	E
Hydrolube	N	N	G	E	G	N	E	N	E
Hydroquinine	G	G	X	X	G	C	G	E	E
Hydroxyacetic Acid Solution	N	N	N	N	N	N	G	E	E
Hydroxyethyl Acrylate (HEA)	N	N	N	N	N	N	X	E	E
Hydroxyethyl Acrylate Acid (HEA Acid)	N	N	N	N	N	N	X	E	E
Hydroxypropyl Acrylate Acid	N	N	N	N	N	N	X	E	E
Hylene	X	X	X	X	G	X	G	N	N
Hypochlorous Acid	G	G	G	X	G	E	G	E	E
Ink Oil (Linseed Oil Base)	X	X	G	G	G	G	G	E	E
Insulating Oil	X	X	G	E	X	X	X	E	E
Iodine	X	X	X	X	X	F	X	E	E
Iron Acetate	X	X	X	X	E	X	G	E	E
Iron Hydroxide	C	C	E	G	E	G	G	E	E
Iron Salts	E	E	E	E	E	E	E	E	E
Iron Sulfate	E	E	E	E	E	E	E	E	E
Iron Sulfide	E	E	E	E	E	E	E	E	E
Isoamyl Acetate	X	X	X	X	E	X	G	E	E
Isoamyl Chloride	X	X	X	X	C	X	X	G	G
Isoamyl Ether	X	X	X	X	X	X	X	E	E
Isoamyl Phthalate	X	X	X	X	E	X	G	E	E
Isobutane	X	X	E	E	X	X	E	E	E
Isobutanol (Isobutyl Alcohol)	E	E	E	E	E	E	E	E	E
Isobutyl Acetate	X	X	X	X	E	X	G	E	E
Isobutyl Aldehyde	C	X	X	X	G	X	G	E	E
Isobutyl Amine	G	C	X	X	G	C	G	E	E
Isobutyl Bromide	X	X	X	X	X	X	X	G	G
Isobutyl Carbinol	E	E	G	E	E	E	E	E	E
Isobutyl Chloride	X	X	X	X	X	X	X	G	G
Isobutylene	X	X	X	X	E	X	X	E	E
Isobutyl Ether	X	X	X	X	X	X	X	E	E
Isocyanates	C	X	X	X	G	C	G	G	G
Isooctane	X	X	E	E	X	G	X	E	E
Isooctyl Alcohol	N	N	N	N	N	N	E	E	E
Isooctyl Thioglycolate	N	N	N	N	N	N	G	E	N
Isopentane	X	X	E	E	X	X	X	G	G
Isophorone	N	N	N	X	E	N	E	G	G
Isopropyl Amine	G	X	E	C	G	C	G	E	E
Isopropyl Acetate	X	X	X	X	E	C	G	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Isopropyl Alcohol (Iso-propanol)	E	E	E	E	E	E	E	G	G
Isopropyl Amine	G	X	E	C	G	C	G	E	E
Isopropyl Benzene	X	X	X	X	X	X	X	E	E
Isopropyl Chloride	X	X	X	X	X	X	X	G	G
Isopropyl Ether	X	X	X	C	X	C	X	E	E
Isopropyl Toluene	X	X	X	X	X	X	X	E	E
Jet Fuels	X	X	G	E	X	F	X	E	E
Kerosene	X	X	C	E	X	F	X	E	E
Ketchup	N	N	E	E	N	N	N	N	N
Ketoglutaric Acid	N	N	N	N	N	N	G	E	E
Ketones	G	G	X	X	G	X	E	E	E
Lacquer	X	X	X	X	X	X	N	N	N
Lacquer Solvents	X	X	X	X	X	X	X	E	E
Lactic Acid - Cold	G	G	E	X	E	G	X	C	N
Lactic Acid - Hot	X	X	X	X	N	C	X	N	N
Lactol	N	N	G	G	N	N	N	E	N
Lard	X	X	G	E	X	X	C	E	E
Lasso (Alachlor)	N	N	N	N	N	N	N	E	N
Latex Paint	G	G	N	E	G	N	E	E	E
Lauryl Alcohol	E	E	E	E	E	E	E	E	E
Lavender Oil	X	X	X	G	X	X	X	G	N
Lead Acetate	X	X	G	G	E	X	G	E	E
Lead Nitrate	E	E	E	E	E	E	E	E	E
Lead Sulfamate	G	G	E	G	E	G	E	E	E
Lead Sulfate	E	E	E	E	E	E	E	E	E
Lead, Tetraethyl	X	X	X	G	X	X	X	G	N
Lead, Tetramethyl	X	X	X	G	X	X	X	N	N
Lecithin	N	N	G	X	N	N	N	E	N
Ligroin	X	X	E	E	X	X	X	E	E
Lime	X	X	C	F	E	E	G	E	E
Lime, Chlorinated	G	G	X	G	G	X	G	E	E
Lime Sulphur Solution	X	X	E	X	X	G	G	E	E
Limonene	X	X	N	X	N	N	X	G	E
Lindol (Tricresyl Phosphate)	X	X	X	X	E	G	E	E	E
Linoleic Acid	X	X	X	X	X	X	X	N	N
Linseed Oil	X	X	G	E	E	C	G	E	E
Liquid Petroleum Gas	X	X	G	E	X	G	X	E	E
Liquid Soap	E	E	E	E	E	E	E	E	E
Liquified Natural Gas	X	X	X	X	X	X	X	X	X
Lubrication Oils	X	X	C	E	X	F	X	E	E
Lye Solution	G	G	G	E	E	E	E	E	G
Machine Oil Under 135°F	X	X	E	E	X	G	X	E	N
Maganese Salts	X	X	N	E	N	E	N	E	N
Magnesium Acetate	X	X	X	X	E	X	G	E	E
Magnesium Carbonate	E	E	E	E	E	E	E	E	E
Magnesium Chloride	E	E	E	E	E	E	G	E	E
Magnesium Chloride Brine	E	N	N	E	N	N	E	E	E
Magnesium Hydrate	E	G	E	G	E	G	E	E	E
Magnesium Hydroxide	E	E	E	E	E	E	G	E	E
Magnesium Nitrate	E	E	E	E	E	E	E	E	E
Magnesium Oxide, Slurry	G	N	E	G	N	N	E	E	N
Magnesium Sulfate	E	E	E	E	E	E	E	E	E
Malathion 50 in Aromatic Solvents	X	X	C	C	X	X	X	E	E
Malathion 50 in Aromatic Solvents,	X	X	E	E	X	X	X	E	E
Maleic Acid	X	X	X	F	X	F	F	G	G
Maleic Anhydride	X	X	C	X	C	X	C	E	E
Malic Acid	E	G	C	G	X	G	X	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Malt Extract (Maltine)	N	N	N	N	N	N	E	E	E
Maganese Sulfate	E	E	E	E	E	E	E	E	E
Maganese Sulfide	C	E	G	E	E	E	G	E	E
Manganese Sulfite	C	E	G	E	E	E	G	E	E
Maxmul (Penzoil Hydraulic Fluid)	N	N	G	E	N	N	N	N	N
Mek	G	X	X	X	G	X	G	E	G
Mercuric Chloride	G	G	C	C	G	G	C	E	E
Mercuric Cyanide Solutions	G	G	E	G	G	E	G	E	N
Mercurous Nitrate Solutions	N	N	N	N	N	N	G	E	E
Mercury	E	E	E	E	E	E	E	E	E
Mercury Vapors	E	E	E	E	E	E	E	E	E
Mesityl Oxide (Methyl Isobutenyl Ketone)	X	X	X	X	G	X	G	E	E
Mesitylene	X	X	X	X	X	N	X	N	N
Metallic Soaps	X	X	N	E	X	G	X	E	E
Methacrylic Acid	X	X	G	X	G	C	G	E	E
Methallyl Alcohol	G	N	N	E	G	G	N	N	N
Methane	X	X	G	E	X	G	X	E	E
Methanoic Acid	N	N	N	N	N	N	E	N	N
Methanol (Methyl Alcohol)	X	X	X	X	X	X	X	G	G
Methyl Acetate	F	X	X	X	G	X	G	E	E
Methyl Acetoacetate	X	N	X	X	G	X	G	N	N
Methyl Acetone	X	N	N	X	G	X	E	N	N
Methyl Acrylate	C	X	C	X	G	X	G	E	E
Methacrylic Acid	X	X	N	G	E	N	G	E	E
Methylaniline	N	N	X	X	N	G	G	E	E
Methyl Alcohol (Methanol)	X	X	X	X	X	X	X	G	G
Methylallyl Alcohol	G	N	N	E	G	G	N	N	N
Methylamine (30-40% in water)	N	N	N	X	N	N	G	E	N
Methyl Benzene (Toluene)	X	X	X	X	X	X	X	E	E
Methyl Bromide	X	X	X	G	G	X	G	E	E
Methyl Butanethiol	X	X	N	N	X	N	X	E	N
Methyl Butanol	N	N	N	E	E	N	E	E	E
Methyl Butyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Carbitol	X	X	N	N	X	X	E	E	N
Methyl Cellosolve	X	X	G	C	G	C	G	E	E
Methyl Chloride	X	X	X	F	X	X	E	G	F
Methyl Chloroform	X	X	X	X	X	X	X	G	N
Methyl Chloroformate	X	X	X	X	X	X	X	N	N
Methyl Cyclohexane	X	X	X	X	X	X	X	G	G
Methyl Ethyl Acetate	X	N	N	X	E	G	X	E	G
Methyl Ethyl Alcohol	E	N	N	E	E	E	E	E	E
Methyl Ethyl Carbinol	E	N	N	E	E	E	E	E	E
Methyl Ethyl Ketone	X	N	N	X	G	X	N	E	E
Methyl Hexanone	X	N	N	X	G	X	N	N	N
Methylcyanide	N	N	N	N	N	N	X	N	N
Methylene Bromide	X	X	X	X	X	X	X	G	C
Methylene Chloride	X	X	X	X	X	X	X	E	G
Methylene Dichloride	X	X	X	X	X	X	X	E	N
Methyl Ethyl Ketone (MEK)	G	X	X	X	G	X	G	E	E
Methyl Formate	C	C	G	X	G	C	G	G	G
Methyl Hexanol	E	E	E	E	E	E	E	E	E
Methyl Hexyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Isoamyl Ketone	X	N	N	X	G	X	N	N	N
Methyl Isobutenyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Isobutyl Carbinol	G	C	G	G	E	G	E	E	E
Methyl Isobutyl Ketone (MIBK)	X	X	X	X	G	X	G	E	E
Methyl Isopropyl Ketone	X	X	X	X	G	X	G	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Methyl Methacrylate	X	X	X	X	X	G	G	G	N
Methyl Methacrylate Monomer, Inhibited	X	X	X	X	X	X	X	N	N
Methyl Normal Amyl Ketone	X	N	N	X	G	X	G	E	E
Methyl Phenol	X	X	X	X	G	X	N	G	N
Methyl Propyl Carbinol	E	E	E	E	E	E	E	E	E
Methyl Propyl Ether	X	X	X	X	X	X	X	E	E
Methyl Propyl Ketone	X	X	X	X	G	X	G	E	E
Methyl Salicylate	X	X	X	X	G	X	G	G	G
Methyl Sulfate	X	X	X	X	G	X	X	E	N
Methyl Tertiary Butyl Ether (MTBE)	X	X	X	X	X	X	X	E	X
Methylallyl Acetate	X	N	N	X	E	G	E	E	E
Methylallyl Chloride	X	N	N	X	X	X	N	G	E
Methyldiethanolamine	X	N	N	E	X	X	X	E	E
Metribuzin	N	N	N	N	N	N	E	N	E
Mineral Oil	X	X	C	E	X	G	X	E	E
Mineral Spirits	X	X	G	E	X	X	X	E	E
Molasses	G	G	G	G	E	E	E	E	N
Molten Sulfur	X	X	N	N	G	F	X	X	N
Monochlorobenzene	X	X	X	X	X	X	X	G	G
Monochlorodifluoromethane (Freon 22)	X	X	E	X	E	X	E	E	E
Monoethanolamine	G	C	G	C	G	G	G	E	E
Monochloroacetic Acid	G	N	N	X	X	X	X	E	E
Monoethylamine	X	X	X	X	G	X	E	G	N
Monoisopropanol Amine	G	N	N	G	E	X	N	E	E
Monomethylether	G	G	E	E	E	C	C	E	E
Monopentaerythritol Solution	N	N	N	N	N	N	E	E	E
Monosodium Phosphate	G	G	X	N	G	N	G	E	N
Monovinyl Acetate	X	X	X	X	G	C	C	E	E
Morpholine	N	N	N	X	N	N	X	N	N
Motor Oil - 40W	X	X	E	E	X	X	X	E	E
Muriatic Acid	E	X	X	X	F	X	F	E	E
Mustard	E	E	E	N	E	E	N	N	N
N-Octane	X	X	G	G	X	X	X	G	N
Naphta	X	X	G	E	X	X	X	E	E
Naphtialene	X	X	X	X	X	X	X	E	E
Naphthenic Acids	X	X	X	G	X	X	X	E	E
Natural Gas	X	X	F	F	X	F	X	C	X
Neatsfoot Oil	X	X	G	E	G	G	G	E	E
Neohexane	N	N	G	E	N	N	X	N	N
Neon Gas	E	E	E	E	E	E	X	N	N
Neu-Tri (Trichloroethylene)	X	X	X	C	X	X	X	G	G
Neutral Oil	X	X	G	G	X	N	X	E	E
Nickel Acetate	X	X	X	X	E	X	G	E	E
Nickel Chloride	E	E	E	E	E	E	E	E	E
Nickel Nitrate	E	E	E	E	E	E	E	E	E
Nickel Plating Solution	E	X	C	G	G	G	G	E	E
Nickel Salts	E	E	E	E	E	E	E	E	N
Nickel Sulfate	E	E	E	E	E	E	E	E	E
Niter Cake	E	E	E	E	E	E	E	E	E
Nitric Acid, Conc (16N)	X	X	X	X	G	G	E	G	N
Nitric Acid, Red Fuming	X	X	X	X	X	X	X	X	X
Nitric Acid - 10%	X	X	X	X	G	G	G	E	E
Nitric Acid - 13N	N	N	N	N	N	N	C	N	N
Nitric Acid - 13N + 5%	N	N	N	N	N	N	N	N	N
Nitric Acid - 20%	X	X	X	X	G	G	F	E	E
Nitric Acid - 30%	X	X	X	X	F	F	F	G	G
Nitric Acid - 30% to 70%	X	X	X	X	F	F	C	F	F

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Nitrobenzene	X	X	X	X	X	X	X	E	E
Nitroethane	G	G	C	X	G	G	X	E	N
Nitrogen Gas	E	E	E	E	E	E	E	E	E
Nitrogen Oxide	X	X	X	X	E	E	G	E	N
Nitrogen Tetraoxide	X	X	X	X	X	X	X	X	X
Nitromethane	G	G	C	X	G	C	G	E	E
Nitropropane	C	C	C	X	E	C	G	E	E
Nitrous Oxide	E	E	E	E	E	E	E	E	E
Nonenes	X	N	N	E	X	X	X	E	E
Octadecanoic Acid	X	X	G	E	G	X	C	E	E
Octane	X	X	G	E	X	X	X	G	G
Octanol (Octyl Alcohol)	G	G	E	G	G	G	G	E	E
Octyl Acetate	X	X	X	X	E	X	G	E	E
Octyl Aldehyde	X	N	N	X	X	X	N	N	N
Octyl Amine	C	C	G	C	G	C	G	E	E
Octyl Carbinol	E	E	E	E	E	E	E	E	E
Octylene Glycol	E	E	E	E	E	E	E	E	E
Oil, ASTM #1	X	X	E	E	X	G	X	E	E
Oil, ASTM #2	X	X	E	E	X	C	X	E	E
Oil, ASTM #3	X	X	C	G	E	X	X	E	E
Oil - Petroleum	X	X	E	E	X	F	X	E	E
Oil of Turpentine	X	X	G	E	X	X	X	G	G
Oils, Animal (high fatty acid content)	X	X	G	E	G	X	X	G	N
Oleic Acid	X	X	F	C	G	X	G	E	E
Oleum (Fuming Sulf Acid)	X	X	X	X	X	X	X	X	X
Olive Oil	X	X	G	E	E	G	G	E	E
Organic Fatty Acids	X	N	N	E	X	X	X	E	E
Ortho-Dichlorobenzene	X	X	X	X	X	X	X	E	E
Orthodichlorobenzol	X	N	N	X	X	X	X	E	E
Orthoxylene	X	X	N	N	X	X	X	E	G
OS 45 Hydraulic Fluid (Silicate Ester Base)	X	X	E	G	X	G	X	N	N
Oxalic Acid	F	F	G	F	E	G	E	E	E
Oxygen, Cold	G	G	G	G	E	G	G	E	E
Oxygen, Hot	X	X	X	X	X	X	X	E	E
Ozone	X	F	G	X	G	E	E	E	E
Paint Thinner	X	X	X	X	X	X	X	E	E
Paint (Emulsion or Latex)	N	N	N	G	N	N	G	E	E
Paint (Oil or Solvent Based)	X	X	N	G	X	X	X	E	N
Palmitic Acid	X	X	C	E	E	C	C	G	E
Palm Oil	X	X	G	E	E	G	G	E	E
Papermakers Alum	E	E	E	E	E	E	E	E	E
Para-Dichlorobenzene	X	X	X	X	X	X	X	G	G
Paraffin Wax	X	X	G	E	X	X	X	X	X
Paraformaldehyde	X	X	G	G	G	G	G	E	E
Paraldehyde	X	N	N	X	G	X	G	E	E
Paraxylene	X	N	N	N	X	X	N	E	E
Peanut Oil	X	X	G	E	C	G	X	E	E
Pelargonic Acid	X	N	N	E	E	X	N	E	E
Pentachloroethane	X	X	N	N	X	X	N	E	E
Pentachlorophenol in Oil	X	X	X	X	E	N	X	E	E
Pentane	X	X	E	E	X	G	X	E	E
Pentanol	E	N	N	E	E	E	E	E	E
Pentatone	X	N	N	X	G	X	N	E	E
Perchloric Acid - 2N	G	G	E	X	G	E	C	E	E
Perchloroethylene	X	X	X	X	X	X	X	G	G
Petrolatum	X	X	E	E	X	C	X	E	E
Petroleum, Crude	X	X	G	E	X	X	X	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Petroleum Ether (Naptha)	X	X	E	E	X	X	X	E	E
Petroleum Naptha	X	X	X	X	X	X	X	X	X
Petroleum Oils	X	X	E	E	X	C	X	E	E
Petroleum Paraffin Wax	N	N	N	N	N	N	X	G	G
Phenol	F	F	F	X	E	F	F	E	E
Phenol Acid	X	X	X	X	G	X	G	G	N
Phenolates	N	N	X	X	N	X	N	N	N
Phenolsulfonic Acid	X	X	C	X	C	X	C	G	G
Phenyl Chloride	X	X	X	X	X	X	X	E	E
Phenylhydrazine	C	X	X	X	G	C	C	E	E
Phorone	X	X	X	X	E	X	G	E	E
Phosgene (Carbonyl Chloride)	X	X	X	X	G	X	X	X	X
Phosphate Esters	X	X	X	X	E	X	E	E	E
Phosphoric Acid 10%	E	E	E	E	E	E	E	E	E
Phosphoric Acid 10% - 85%	F	F	G	F	E	E	E	E	E
Phosphorous Trichloride	X	X	X	X	E	X	E	E	E
Pickling Solution	C	C	C	C	C	C	C	E	E
Pitric Acid, Molten	C	C	C	C	C	G	C	X	X
Pitric Acid, Water Solution	E	C	G	G	E	E	G	E	E
Pinene	X	X	X	E	X	X	X	E	E
Pine Oil	X	X	X	F	F	X	X	E	E
Piperidine	X	X	X	X	X	X	X	G	G
Pitch	X	X	G	G	X	C	X	E	E
Plating Solutions, Chrome	X	X	G	G	E	C	E	E	E
Plating Solutions, Other	E	E	G	G	E	C	E	E	E
Polyvinyl Acetate Emulsion (PVA)	C	C	G	C	E	G	E	E	E
Polyethylene Glycol	E	E	E	E	E	E	E	E	E
Polypropylene Glycol	E	E	E	E	E	E	E	E	E
Polyurethane Foam Under 125°F	N	N	N	N	G	N	G	E	N
Potassium Acetate	X	X	X	X	E	X	G	E	E
Potassium Bicarbonate	E	E	E	E	E	E	E	E	E
Potassium Bisulfate	E	E	E	E	E	E	E	E	E
Potassium Bisulfite	E	E	E	E	E	E	E	E	E
Potassium Bromide	E	E	E	E	E	E	E	E	N
Potassium Carbonate	E	E	E	E	E	E	E	E	E
Potassium Chloride	E	E	E	E	E	E	E	E	E
Potassium Chromate	X	X	F	X	E	F	G	G	G
Potassium Cyanide	E	E	E	E	E	E	E	E	E
Potassium Dichromate	X	X	G	X	E	F	G	E	E
Potassium Hydrate	E	G	G	G	E	G	E	E	E
Potassium Hydroxide	E	E	C	E	E	E	E	E	E
Potassium Iodide	N	N	E	E	N	E	E	N	N
Potassium Nitrate	E	E	E	E	E	E	E	E	E
Potassium Permanganate 5%	X	X	X	X	E	X	E	E	E
Potassium Phosphate	N	N	E	N	N	E	E	N	N
Potassium Silicate	E	E	E	E	E	E	E	E	E
Potassium Sulfate	E	E	E	E	E	E	E	E	E
Potassium Sulfide	E	E	E	E	E	E	E	E	E
Potassium Sulfite	E	E	E	E	E	E	E	E	E
Potassium Thiosulfate	N	N	E	N	N	E	E	N	N
Producer Gas	X	X	G	E	X	G	X	E	E
Propane	X	X	C	E	X	G	X	E	N
Propanediol	E	E	G	E	E	E	E	E	E
Propanol	E	N	N	E	E	E	E	E	E
Propionic Acid	G	G	X	X	G	G	G	E	E
Propyl Acetate	X	X	X	X	G	X	G	E	E
Propyl Alcohol (Propanol)	E	E	E	E	E	E	E	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Propyl Aldehyde	X	N	N	X	G	X	N	N	N
Propyl Chloride	X	X	C	X	C	X	C	G	G
Propylene	X	X	X	X	X	X	X	N	N
Propylene Diamine	G	G	G	G	E	C	G	E	E
Propylene Dichloride	X	X	X	X	X	X	X	G	G
Propylene Glycol	E	E	E	E	E	E	E	E	E
Propylene Tetramer	X	N	N	E	X	X	X	E	E
Purina Insecticide	N	N	X	X	G	N	G	E	N
Puropale RX Oils	N	N	N	E	X	N	X	E	N
Pydraul Hydraulic Fluids	X	X	X	X	G	X	G	G	G
Pyranol	X	X	X	C	X	X	X	E	E
Pyrene (Carbon Tetrachloride)	X	X	X	X	X	X	X	G	X
Pyridine	X	X	X	X	G	X	G	E	E
Pyroligneous Acid	C	C	G	C	G	G	G	E	E
Pyrrole	C	G	X	X	G	X	C	E	E
Quenching Oil	N	N	G	G	N	N	N	N	N
Quintolubric 822	N	N	G	E	X	N	G	E	N
Rando Oils	N	N	N	E	X	N	X	E	N
Rape Seed Oil	X	X	G	G	E	G	G	G	G
Red Oil (Crude Oleic Acid)	X	X	G	G	G	G	G	E	E
Refined Wax (Petroleum)	X	X	G	E	N	N	N	E	N
Refrigerant 11 - Freon	X	X	C	E	X	F	F	G	G
Refrigerant 12 - Freon	X	X	G	E	X	X	X	G	G
Refrigerant 22 - Freon	X	X	E	X	E	X	X	E	E
Richfield A Weed Killer 100%	X	X	X	X	X	X	X	G	G
Richfield B Weed Killer 33%	X	X	G	G	G	C	X	G	G
Rosin Oil	X	X	E	E	X	G	X	E	E
Rotenone and Water	E	E	E	E	E	E	E	E	E
Rubilene Oils	N	N	N	E	X	N	X	E	N
Sal Ammoniac	E	E	E	E	E	E	E	E	E
Salicylic Acid	E	G	X	X	E	E	E	E	E
Sea Water	E	E	E	E	E	E	E	E	E
Sevin	N	N	N	N	N	N	G	G	N
Sewage	F	F	G	E	F	E	G	E	E
Silicate of Soda	E	E	E	E	E	E	E	E	E
Silicone of Soda (Sodium Silicate)	E	E	E	E	E	E	E	E	E
Silicate Esters	X	X	E	G	X	E	X	E	E
Silicone Greases	E	E	E	E	E	E	E	E	E
Slicone Oil	E	F	E	E	E	E	F	E	E
Silver Cyanide	N	N	E	N	N	N	N	E	N
Siver Nitrate	E	E	E	E	E	E	E	E	E
Skelly Solvent	X	X	G	E	X	C	X	E	E
Skydrol Hydraulic Fluids	X	X	X	X	E	X	E	E	E
Soap, Liquid	G	G	E	E	G	E	E	E	N
Soap Oil	N	N	X	X	N	X	N	E	G
Soap Solutions	G	E	G	E	E	E	E	E	E
Soda Ash	E	E	E	E	E	E	E	E	E
Soda, Caustic (Sodium Hydroxide)	E	G	E	G	E	E	E	E	E
Soda Lime	E	E	G	G	E	G	E	E	E
Soda Niter (Sodium Nitrate)	E	E	E	E	E	E	E	E	E
Sodium Acetate	X	X	X	X	X	X	G	E	E
Sodium Aluminate	E	E	E	E	E	E	E	E	E
Sodium Bicarbonate	E	E	E	E	E	E	E	E	E
Sodium Bichromate Solution	G	G	G	G	E	G	E	E	N
Sodium Bisulfate	E	E	E	E	E	E	E	E	E
Sodium Bisulfite	E	E	E	E	E	E	E	E	E
Sodium Borate	E	E	E	E	E	E	E	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Sodium Carbonate	E	E	E	E	E	E	E	E	E
Sodium Chloride	E	E	E	E	E	E	E	E	E
Sodium Chloride Solution	G	G	X	X	G	G	X	N	N
Sodium Chromate	X	X	C	X	E	C	G	G	G
Sodium Cyanide	E	E	E	E	E	E	E	E	E
Sodium Dichromate	X	X	C	X	E	F	G	E	E
Sodium Fluoride	E	E	E	E	E	E	E	E	E
Sodium Hydrate	G	G	G	G	G	G	E	G	N
Sodium Hydroxide (Caustic Soda)	E	C	E	G	E	E	E	E	E
Sodium Hypochlorite	F	X	X	X	G	F	G	G	G
Sodium Metallic	N	N	N	G	N	N	E	N	N
Sodium Metaphosphate	E	E	G	E	E	G	E	E	E
Sodium Nitrate	E	E	E	E	E	E	E	E	E
Sodium Nitrite	E	E	E	E	E	E	E	E	E
Sodium Perborate	C	X	G	X	E	X	G	E	E
Sodium Peroxide	G	G	G	G	E	G	E	G	G
Sodium Phosphate	E	G	G	E	E	E	E	E	E
Sodium Silfhydrate	G	X	G	G	G	G	E	G	N
Sodium Silicate	E	E	E	E	E	E	E	E	E
Sodium Sulfate	E	E	E	E	E	E	E	E	E
Sodium Sulfide	E	E	E	E	E	E	E	E	E
Sodium Sulfite	E	E	E	E	E	E	E	E	E
Sodium Sulphhydrate	N	N	G	G	E	G	E	G	N
Sodium Thiocyanate Solution	N	G	E	E	G	G	E	E	N
Sodium Thiosulfate	E	E	E	E	E	E	E	E	E
Soinus Oils	N	N	N	E	X	N	X	E	N
Soybean Oil	X	X	G	G	G	G	E	E	E
Spent Acid	X	X	X	X	X	G	X	G	G
Stannic Chloride	E	E	E	E	E	E	E	E	E
Stannic Sulfide	E	E	E	E	E	E	E	E	E
Stannous Chloride	E	E	E	E	G	E	E	E	E
Stannous Sulfide	E	E	E	E	E	E	E	E	E
Starch	E	E	G	G	N	E	E	E	N
Starch Gum	N	N	E	E	X	N	E	E	N
Steam - Below 350°F	X	X	X	X	G	X	E	X	X
Stearic Acid	X	X	G	G	G	G	G	E	E
Stoddards Solvent	X	X	C	E	X	X	X	E	E
STPP (Sodium Tripolyphosphate)	G	G	N	N	G	N	G	G	N
Styrene	X	X	X	X	X	X	X	X	X
Sugar Solutions (Sucrose - Non F.D.A.)	E	E	E	E	E	E	E	E	E
Sulfamic Acid	C	C	G	G	E	G	E	E	E
Sulfite Liquors	G	G	G	G	E	E	G	E	E
Sulfonic Acid	X	X	C	X	X	C	X	G	G
Sulfur (Molten)	X	X	X	X	F	F	F	G	G
Sulfur Chloride	X	X	C	C	X	G	X	E	G
Sulfur Dioxide	F	F	G	X	G	G	F	G	G
Sulfur Hexafluoride	E	E	E	E	E	E	E	E	E
Sulfur Trioxide	X	X	X	X	G	X	C	G	G
Sulfuric Acid 0.6 (200°F)	X	X	F	X	F	G	G	E	E
Sulfuric Acid - Conc.	X	X	X	X	X	E	X	E	X
Sulfuric Acid - Fuming	X	X	X	X	X	X	X	X	X
Sulfuric Acid 25%	G	G	G	E	E	E	G	E	E
Sulfuric Acid 25% - 50%	G	X	X	F	E	E	E	E	E
Sulfuric Acid 50% - 96%	X	X	F	X	F	G	G	E	E
Sulfurous Acid	G	C	G	C	G	E	G	E	E
Sun R&O Oils	N	N	N	E	X	N	X	E	N
Suntac HP Oils	N	N	N	E	X	N	X	E	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Suntac WR Oils	N	N	N	E	X	N	X	E	N
Sunvis Oils 700, 800, 900	N	N	N	E	X	N	X	E	N
Synthetic Oil (Citgo)	N	N	N	E	X	N	X	E	N
Syrup	E	E	G	N	N	N	N	E	E
Tall Oil	X	X	G	E	X	G	X	E	E
Tallow	X	X	E	E	X	X	X	E	E
Tannic Acid	E	G	G	C	E	G	E	E	E
Tar	X	X	G	G	X	X	X	E	E
Tar Bituminous	X	X	C	G	X	X	X	N	N
Tartaric Acid	E	E	G	E	E	E	G	E	E
Tellus Oils	N	N	N	E	X	N	X	E	N
Tergitol	N	N	N	N	N	N	N	N	X
Terpineol	X	X	X	X	C	X	C	G	G
Tertiary Butyl Alcohol	E	E	E	E	E	E	E	E	E
Tetrachlorobenzene	X	X	X	X	X	X	X	G	G
Tetrachloroethane	X	X	X	X	X	X	X	E	G
Tetrachloroethylene	X	X	X	X	X	X	X	E	E
Tetrachloromethane	X	X	X	X	X	X	X	G	G
Tetrachloronaphthalene	X	X	X	X	X	X	X	G	G
Tetradecanol	E	E	E	E	E	E	E	E	E
Tetraethylene Glycol	E	E	E	E	E	E	E	E	E
Tetraethyl Lead	X	X	C	G	X	X	X	E	E
Tetrahydrofuran (THF)	X	X	X	X	X	X	X	E	E
Tetrahydroxydicyclopentadiene	X	X	X	X	X	X	X	N	N
Tetralin	X	X	X	X	X	X	X	N	N
Theobromo Oil	X	X	G	G	N	N	N	E	G
Thionyl Chloride	X	X	X	X	X	X	X	E	E
Thiopen	X	X	X	X	G	N	X	N	N
Tin Chloride	E	E	E	E	E	E	E	E	E
Tin Tetrachloride	E	E	E	E	E	E	E	E	E
Titanium Tetrachloride	X	X	G	F	X	F	F	E	G
Toluene	X	X	X	X	X	X	X	E	E
Toluene Diisocyanate (TDI)	C	C	X	C	E	X	E	E	E
Toluidine	X	N	N	X	X	X	N	N	N
Toluol	X	N	N	X	X	X	X	E	E
Toxaphene	X	X	G	G	X	X	X	E	E
Transformer Oils (Petroleum Base)	X	X	G	E	X	G	X	E	E
Transformer Oils (Chloronated Pheynyl)	X	X	X	X	X	X	X	G	G
Transmission Fluids A	X	X	C	G	X	X	X	E	E
Transmission Fluid B	X	X	X	C	X	X	X	E	E
Tributoxyethyl Phosphate	X	X	N	X	G	X	G	E	X
Tributoxyl Ethylsulfate	X	N	N	X	E	X	E	X	N
Tributyl Amine	G	G	G	G	E	C	E	E	E
Tricetin	E	G	G	G	E	G	E	E	E
Trichloroacetic Acid	C	G	X	G	G	X	G	E	N
Trichlorobenzene	X	X	X	X	X	X	X	G	G
Trichloroethane	X	X	X	X	X	X	X	E	E
Trichloroethylene	X	X	X	C	X	X	X	G	X
Trichloropropane	X	X	X	X	X	X	X	E	E
Tricresyl Phosphate (TCP)	X	X	X	X	E	X	G	E	E
Tridecanol	E	E	E	E	E	E	E	E	E
Triethanolamine (TEA)	G	G	E	G	E	E	G	E	E
Triethylamine	G	G	E	G	G	E	G	E	E
Triethylene Glycol	E	E	E	E	E	E	E	E	E
Trifluralin	X	N	N	X	X	X	X	E	E
Trihydroxybenzoic Acid	G	G	X	X	G	N	E	E	E
Trimethylbenzene	X	X	X	X	X	N	X	N	N

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data



CHEMICAL CHARTS

CHEMICAL AGENT	NR	SBR	CR	NBR	IIR	CSM	EPDM	XLPE	UHMW
Trinitrophenol	G	G	G	G	G	G	G	G	G
Trinitrotoluene (TNT)	X	X	G	X	X	G	X	X	X
Triphenyl Phosphate	X	X	C	X	E	C	G	E	E
Tripoly Phosphate	G	G	N	N	G	N	G	G	N
Trisodium Phosphate	E	E	E	E	E	E	E	E	E
Tung Oil	X	X	G	E	C	G	X	E	E
Turbine Oil	X	X	G	G	X	G	X	E	E
Turpentine	X	X	E	E	X	X	X	G	E
2, 4D With 0.1 Fuel Oil	X	X	E	E	X	X	X	E	E
Ucon Hydrolube Oils	X	X	G	E	E	X	E	E	E
Undecanol	G	N	N	E	N	G	N	N	N
Undecyl Alcohol	G	N	N	E	N	G	N	N	N
Union Hydraulic Tractor Fluid	N	N	N	E	X	N	X	E	N
Unsymmetrical Dimethyl Hydrazine (UDMH)	X	X	X	X	E	E	E	C	C
Uran	G	C	G	G	G	E	G	E	E
Urea	E	F	E	F	E	F	E	E	E
Urethane Formulations	N	N	N	E	N	N	N	N	N
Uric Acid	N	N	N	N	N	N	N	N	N
Varnish	X	X	G	G	X	F	X	E	E
Vegetable Oils	X	X	G	E	E	G	C	E	E
Versilube	C	C	C	E	E	E	E	E	E
Vinegar	E	F	E	C	E	E	G	E	E
Vinegar Acid	E	F	E	F	E	E	G	E	E
Vinyl Acetate	X	X	X	X	G	F	F	G	X
Vinyl Benzene	X	X	X	X	X	X	X	G	G
Vinyl Chloride	F	X	X	X	X	X	X	E	E
Vinyl Cyanide	N	N	N	N	N	N	N	N	N
Vinyl Ether	X	X	X	X	X	C	C	E	E
Vinyl Styrene	N	N	N	N	N	N	N	N	N
Vinyl Toluene	X	X	X	X	X	X	X	G	G
Vinyl Trichloride	X	X	X	X	X	X	X	E	E
Vitrea Oils	N	N	N	E	X	N	X	E	N
V.M. & P. Naptha	X	X	E	E	X	X	X	E	E
Water, Fresh (NON F.D.A.)	E	E	E	E	E	E	E	E	E
Water Boiling	N	N	E	N	N	N	E	N	N
Water, Salt	E	E	E	G	E	E	E	E	E
Whiskey	E	E	E	E	E	E	E	X	N
White Liquor	E	E	E	E	G	E	C	E	E
White Oil	X	X	G	E	X	X	X	E	E
Wines E	E	E	E	E	E	E	E	X	N
Wood Alcohol	E	E	E	E	E	E	E	E	E
Xylene (Xytol)	X	X	X	X	X	X	X	C	C
Xylidine	X	X	X	X	X	X	X	G	G
Zeolites	G	E	E	C	C	E	E	E	E
Zeric	N	N	N	E	X	N	X	E	N
Zinc Acetate	C	X	C	C	E	C	G	E	E
Zinc Carbonate	E	E	E	E	E	E	E	E	E
Zince Chloride	E	E	E	E	E	E	G	E	E
Zinc Chromate	E	C	E	E	E	C	E	G	G
Zinc Sulfate	E	E	E	E	E	E	E	E	E

E: Excellent G: Good F: Fair C: Acceptable X: Unsatisfactory N: No Data