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Chemical Resistance of GYLON® & Compressed Fiber Gasketing

A general guide for selection of gasketing material, Rev. September 2023

Key: **A = Suitable - little or no adverse effect**
B = Possible minor to moderate adverse effect
C = Not suitable - moderate to severe adverse effect
– = No data or insufficient evidence

Footnotes explained on last page.

If fire resistant gaskets are required please consult Fire Tests under Gasket Terms, or contact Applications Engineering.

Medium	Garlock Style Numbers											
	GYLON®							Compressed Fiber				
	3500 EPX 3500	3504 EPX 3504 3565	3510 EPX 3510	3560	3561	3522 3540 3545	3530	9900 9450/9850 5500	2900 2950 3000	3200 3400 9800	3300	3700
Abietic Acid	A	A	A	A	A	A	A	A	A	–	–	–
Acetaldehyde	A	A	A	A	A	A	A	C	C	C	C	B
Acetamide	A	A	A	A	A	A	A	A	A	C	A	B
Acetic Acid (Crude, Glacial, Pure)	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	B[1]	B[1]	B[1]	B[1]	B[1]
Acetic Anhydride	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	B[1]	B[1]	B[1]	B[1]	B[1]
Acetone	A	A	A	A	A	A	A	C	C	B	B	A
Acetonitrile	A	A	A	A	A	A	A	C	C	–	B	B
Acetophenone	A	A	A	A	A	A	A	C	C	C	C	B
2-Acetylaminofluorene	A	A	A	A	A	A	A	C	C	C	C	C
Acetylene	A	A	A	A	A	A	A	A	A	B	A	B
Acrolein	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	B[1]	B[1]	C	B[1]	B[1]
Acrylamide	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Acrylic Acid	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	B[1]
Acrylic Anhydride	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	–	–	–	–	–
Acrylonitrile	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Air, 150°F and below	A	A	A	A	A	A	A	A	A	A	A	A
Air, 150°F to 300°F	A	A	A	A	A	A	A	B	B	B	B	B
Allyl Acetate	A	A	A	A	A	A	A	C	C	C	C	B
Allyl Chloride	A	A	A	B	B	A	A	C	C	C	C	B
Allyl Methacrylate	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Aluminum Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Aluminum Fluoride	C	–	A	C	C	A	A	C	C	C	C	C
Aluminum Hydroxide (Solid)	A	A	A	A	A	A	A	A	A	A	A	A
Aluminum Nitrate	A	A	A	A	A	A	–	B	B	B	B	B
Aluminum Sulfate	A	A	A	B	B	A	A	A	A	A	A	A
Alums	A	A	A	B	B	A	A	A	A	A	A	A
4-Aminodiphenyl	A	A	A	A	A	A	A	C	C	C	C	C
Ammonia, Gas, 150°F and below	A	A	A	A	A	A	A	A	A	A	A	A
Ammonia Gas, Above 150°F	A	A	A	A	A	A	A	C	C	C	B	B
Ammonia Liquid, Anhydrous	A	A	A	A	A	A	A	B	B	–	A	A
Ammonium Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Ammonium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Nitrate	A	A	A	A	A	A	–	B	B	B	B	B
Ammonium Phosphate, Monobasic	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Phosphate, Dibasic	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Phosphate, Tribasic	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium Sulfate	A	A	A	B	B	A	A	A	A	A	A	A
Amyl Acetate	A	A	A	A	A	A	A	C	C	C	C	B
Amyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Aniline, Aniline Oil	A	A	A	A	A	A	A	C	C	C	C	B
Aniline Dyes	A	A	A	A	A	A	A	C	C	B	B	B
o-Anisidine	A	A	A	A	A	A	A	C	C	C	C	C
Aqua Regia	A	A	A	B	B	A	C	C	C	C	C	C
Aroclors	A	A	A	A	A	A	A	C	C	C	C	C

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Asphalt	A	A	A	A	A	A	A	A	A	C	B	C
Aviation Gasoline	A	A	A	A	A	A	A	B	B	C	B	C
Barium Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Barium Hydroxide	A	A	A	A	A	A	A	A	A	A	A	A
Barium Sulfide	A	A	A	A	A	A	A	A	A	A	A	A
Baygon	A	A	A	A	A	A	A	C	C	C	–	–
Beer [9]	A	A	A	A	A	A	A	A	A	A	A	A
Benzaldehyde	A	A	A	A	A	A	A	C	C	C	C	B
Benzene, Benzol	A	A	A	A	A	A	A	C	C	C	C	C
Benzidine	A	A	A	A	A	A	A	C	C	C	C	–
Benzoic Acid	A	A	A	A	A	A	A	B	B	B	B	B
Benzonitrile	A	A	A	A	A	A	A	C	C	–	–	C
Benzotrichloride	A	A	A	C	C	A	A	C	C	C	C	C
Benzoyl Chloride	A	A	A	–	–	A	A	C	C	–	C	C
Benzyl Alcohol	A	A	A	A	A	A	A	C	C	–	B	B
Benzyl Chloride	A	A	A	–	–	A	A	C	C	C	C	B
Bio-diesel (B100)	A	A	A	A	A	A	A	A	A	A	-	-
Biphenyl	A	A	A	B	B	A	A	C	C	C	C	C
Bis(2-chloroethyl)ether	A	A	A	–	–	A	A	C	C	C	C	C
Bis(chloromethyl)ether	A	A	A	–	–	A	A	C	C	C	C	B
Bis(2-ethylhexyl)phthalate	A	A	A	A	A	A	A	C	C	C	C	B
Bitumen	A	A	A	A	A	A	A	A	A	C	B	C
Black Sulfate Liquor	C	B	A	C	A	A	A	C	C	C	C	C
Blast Furnace Gas	A	A	A	A	A	A	A	B	B	C	B	C
Bleach (Sodium Hyprochlorite)	A	A	A	B	B	A	–	C	C	–	C	C
Boiler Feed Water	A	A	A	A	A	A	A	A	A	A	A	A
Borax	A	A	A	A	A	A	A	A	A	A	A	A
Brake Fluid (Mineral Oil)	A	A	A	A	A	A	A	A	A	C	-	C
Brake Fluid (Glycol Ether)	A	A	A	A	A	A	A	-	-	-	-	A
Boric Acid	A	A	A	A	A	A	A	A	A	A	A	A
Brine (Sodium Chloride)	A	A	A	B	B	A	A	A	A	A	A	A
Bromine	A	A	A	C	C	A	–	C	C	C	C	C
Bromine Trifluoride	C	C	C	C	C	C	C	C	C	C	C	C
Bromoform	A	A	A	A	A	A	A	C	C	C	C	C
Bromomethane	A	A	A	A	A	A	A	C	C	C	C	C
Butadiene	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	–	C
Butane	A	A	A	A	A	A	A	A	A	C	B	C
2-Butanone	A	A	A	A	A	A	A	C	C	C	C	C
Butyl Acetate	A	A	A	A	A	A	A	C	C	C	C	B
Butyl Alcohol, Butanol	A	A	A	A	A	A	A	A	A	A	A	A
n-Butyl Amine	A	A	A	A	A	A	A	B	B	–	C	B
tert-Butyl Amine	A	A	A	A	A	A	A	B	B	–	C	B
Butyl Methacrylate	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Butyric Acid	A	A	A	A	A	A	A	A	A	A	A	A
Calcium Bisulfite	A	A	A	A	A	A	A	B	B	–	B	C
Calcium Chloride <200F	A	A	A	B	B	A	A	A	A	A	A	A
Calcium Chloride >200F	A	A	A	B	B	A	A	A	B	B	B	B
Calcium Cyanamide	A	A	A	A	A	A	A	B	B	B	B	B
Calcium Hydroxide	–	A	A	–	A	A	A	A	A	A	A	A
Calcium Hypochlorite	A	A	A	B	B	A	–	B	C	C	C	C
Calcium Nitrate	A	A	A	–	–	A	C	–	–	–	–	–
Calflo AF	A	A	A	A	A	A	A	A	A	C	–	C
Calflo FG	A	A	A	A	A	A	A	A	A	C	–	C
Calflo HTF	A	A	A	A	A	A	A	A	A	C	–	C
Calflo LT	A	A	A	A	A	A	A	A	A	C	–	C

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Cane Sugar Liquors	A	A	A	A	A	A	A	A	A	A	A	A
Caprolactam	A	A	A	A	A	A	A	C	C	C	C	B
Captan	A	A	A	A	A	A	A	C	C	C	C	C
Carbaryl	A	A	A	A	A	A	A	C	C	C	C	C
Carbolic Acid, Phenol	A	A	A	A	A	A	A	C	C	C	C	B
Carbon Dioxide, Dry	A	A	A	A	A	A	A	A	A	A	A	A
Carbon Dioxide, Wet	A	A	A	A	A	A	A	A	A	A	A	A
Carbon Disulfide	A	A	A	A	A	A	A	C	C	C	C	C
Carbon Monoxide	A	A	A	A	A	A	A	B	B	B	B	B
Carbon Tetrachloride	A	A	A	B	B	A	A	C	C	C	C	C
Carbonic Acid	A	A	A	A	A	A	A	A	A	A	A	A
Carbonyl Sulfide	A	A	A	–	–	A	A	C	C	C	C	C
Castor Oil	A	A	A	A	A	A	A	A	A	C	B	B
Catechol	A	A	A	A	A	A	A	C	C	B	–	–
Caustic Soda	C	B	A[5]	C	A[5]	A[10]	A[5]	C	C	C	C	C
Cetane (Hexadecane)	A	A	A	A	A	A	A	A	A	C	B	C
China Wood Oil	A	A	A	A	A	A	A	A	A	C	B	C
Chloramben	A	A	A	–	–	A	A	C	C	C	C	C
Chlorazotic Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C
Chlordane	A	A	A	–	–	A	A	C	C	C	C	C
Chlorinated Solvents, Dry	A	A	A	A	A	A	A	C	C	C	C	C
Chlorinated Solvents, Wet	A	A	A	C	C	A	A	C	C	C	C	C
Chlorine, Dry	A	A	A	A	A	A	A	–	–	–	–	–
Chlorine, Wet	A	A	A	C	C	A	A	C	C	C	C	C
Chlorine Dioxide	A	A	A	–	–	A	C	C	C	C	C	C
Chlorine Trifluoride	C	C	C	C	C	C	C	C	C	C	C	C
Chloroacetic Acid	A	A	A	C	C	A	A	C	C	B	C	B
2-Chloroacetophenone	A	A	A	B	B	A	A	C	C	C	C	C
Chloroazotic Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C
Chlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C
Chlorobenzilate	A	A	A	–	–	A	A	C	C	C	C	C
Chloroethane	A	A	A	A	A	A	A	C	C	C	C	C
Chloroethylene	A	A	A	A	A	A	A	C	C	C	C	C
Chloroform	A	A	A	A	A	A	A	C	C	C	C	C
Chloromethyl Methyl Ether	A	A	A	–	–	A	A	C	C	C	C	C
Chloronitrous Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C
Chloroprene	A	A	A	B	B	A	A	C	C	C	C	C
Chlorosulfonic Acid	A	A	A	–	–	A	–	C	C	C	C	C
Chrome Plating Solutions	–[4]	–[4]	A	–[4]	B	A	A	C	C	C	C	C
Chromic Acid	A	A	A	B	B	A	C	C	C	C	C	C
Chromic Anhydride	A	A	A	B	B	A	C	C	C	C	C	C
Chromium Trioxide	A	A	A	B	B	A	C	C	C	C	C	C
Citric Acid	A	A	A	A	A	A	A	A	A	A	A	A
Coke Oven Gas	A	A	A	A	A	A	A	B	B	C	B	C
Copper Chloride	A	A	A	C	C	A	A	A	A	A	A	A
Copper Sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Corn Oil [9]	A	A	A	A	A	A	A	A	A	C	B	B
Cotton Seed Oil [9]	A	A	A	A	A	A	A	A	A	C	B	B
Creosote	A	A	A	A	A	A	A	B	B	C	B	C
Cresols, Cresylic Acid	A	A	A	A	A	A	A	C	C	C	C	C
Crotonic Acid	A	A	A	–	–	A	A	C	C	C	C	C
Crude Oil	A	A	A	B	B	A	A	A	A	B	B	C
Crude oil, sour	A	A	A	B	B	A	A	B	B	C	B	C
Cumene	A	A	A	A	A	A	A	C	C	C	C	C
Cyclohexane	A	A	A	A	A	A	A	A	A	C	B	C

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Cyclohexanone	A	A	A	A	A	A	A	C	C	C	C	B
2,4-D, Salts and Esters	A	A	A	–	–	A	A	C	C	C	C	C
Detergent Solutions	B[12]	B[12]	A	A	A	A	A	B[12]	B[12]	B[12]	B[12]	B[12]
Diazomethane	A	A	A	A	A	A	A	–	–	–	–	–
Dibenzofuran	A	A	A	A	A	A	A	C	C	C	C	C
Dibenzylether	A	A	A	A	A	A	A	C	C	C	C	C
1,2-Dibromo-3-chloropropane	A	A	A	B	B	A	A	C	C	C	C	C
Dibromoethane	A	A	A	A	A	A	A	C	C	C	C	C
Dibutyl Phthalate	A	A	A	A	A	A	A	C	C	C	C	B
Dibutyl Sebacate	A	A	A	A	A	A	A	C	C	C	C	B
o-Dichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C
1,4-Dichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C
3,3-Dichlorobenzidene	A	A	A	–	–	A	A	C	C	C	C	C
Dichloroethane (1,1 or 1,2)	A	A	A	A	A	A	A	C	C	C	C	C
1,1-Dichloroethylene	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Dichloroethyl Ether	A	A	A	–	–	A	A	C	C	C	C	C
Dichloromethane	A	A	A	A	A	A	A	C	C	C	C	C
1,2-Dichloropropane	A	A	A	A	A	A	A	C	C	C	C	C
1,3-Dichloropropene	A	A	A	B	B	A	A	C	C	C	C	C
Dichlorvos	A	A	A	B	B	A	A	C	C	C	C	C
Diesel Oil/Fuel	A	A	A	A	A	A	A	A	A	B	B	C
Diethanolamine	A	A	A	A	A	A	A	B	B	B	B	B
N,N-Diethylaniline	A	A	A	–	–	A	A	C	C	C	C	C
Diethyl Carbonate	A	A	A	–	–	A	A	C	C	–	C	–
Diethyl Sulfate	A	A	A	A	A	A	A	C	C	C	–	C
3,3-Dimethoxybenzidene	A	A	A	A	A	A	A	C	C	C	–	–
Dimethylamine	A	A	A	A	A	A	A	B	B	B	–	B
Dimethylaminoazobenzene	A	A	A	A	A	A	A	–	–	–	–	–
N,N-Dimethyl Aniline	A	A	A	–	–	A	A	C	C	C	C	C
3,3-Dimethylbenzidine	A	A	A	A	A	A	A	C	C	C	C	C
Dimethyl Carbamoyl Chloride	A	A	A	C	C	A	A	C	C	C	C	C
Dimethyl Ether	A	A	A	A	A	A	A	B	B	C	B	B
Dimethylformamide	A	A	A	–	–	A	A	C	C	C	C	C
Dimethyl Hydrazine, Unsymmetrical	A	A	A	A	A	A	A	C	C	B	B	B
Dimethyl Phthalate	A	A	A	A	A	A	A	C	C	C	C	B
Dimethyl Sulfate	A	A	A	A	A	A	A	C	C	C	–	C
4,6-Dinitro-o-Cresol and Salts	A	A	A	A	A	A	A	C	C	C	C	C
2,4-Dinitrophenol	A	A	A	–	–	A	A	C	C	C	C	C
2,4-Dinitrotoluene	A	A	A	A	A	A	A	C	C	C	C	C
Dioxane	A	A	A	A	A	A	A	C	C	C	C	B
1,2-Diphenylhydrazine	A	A	A	A	A	A	A	C	C	B	–	–
Diphyl DT	A	A	A	A	A	A	A	C	C	C	C	C
Dowfrost	A	A	A	A	A	A	A	B	B	B	–	B
Dowfrost HD	A	A	A	A	A	A	A	B	B	B	–	B
Dowtherm 4000	A	A	A	A	A	A	A	B	B	B	B	B
Dowtherm A	A	A	A	A	A	A	A	C	C	C	C	C
Dowtherm E	A	A	A	A	A	A	A	C	C	C	C	C
Dowtherm G	A	A	A	A	A	A	A	C	C	C	C	C
Dowtherm HT	A	A	A	A	A	A	A	C	C	C	C	C
Dowtherm J	A	A	A	A	A	A	A	C	C	C	C	C
Dowtherm Q	A	A	A	A	A	A	A	C	C	C	C	C
Dowtherm SR-1	A	A	A	A	A	A	A	A	A	A	A	A
Dynalene EG	A	A	A	A	A	A	A	A	A	A	A	A
Dynalene PG	A	A	A	A	A	A	A	A	A	A	-	A
Dynalene HC Series <200F	B	A	A	A	A	A	A	B	B	B	B	B

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Dynalene HC Series >200F	C	B	A	A	A	A	A	C	C	C	C	C
Dynalene MV	A	A	A	A	A	A	A	C	C	C	C	C
DynaleneHF-LO	A	A	A	A	A	A	A	A	A	B	B	C
Dynalene Calcium Chloride <200F	A	A	A	A	A	A	A	A	A	A	A	A
Dynalene Calcium Chloride >200F	A	A	A	A	A	A	A	A	B	B	B	B
Epichlorohydrin	A	A	A	A	A	A	A	C	C	C	C	B
E85 (85% Ethanol, 15% Gas)	A	A	A	A	A	A	A	A	A	A	-	-
1,2-Epoxybutane	A	A	A	A	A	A	A	–	–	C	C	C
Ethane	A	A	A	A	A	A	A	A	A	B	B	C
Ethanol, Ethyl Alcohol [9]	A	A	A	A	A	A	A	A	A	A	A	A
Ethers	A	A	A	A	A	A	A	B	B	C	B	B
Ethyl Acetate	A	A	A	A	A	A	A	C	C	C	C	C
Ethyl Acrylate	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	B[1]
Ethyl Alcohol [9]	A	A	A	A	A	A	A	A	A	A	A	A
Ethylbenzene	A	A	A	A	A	A	A	C	C	C	C	C
Ethyl Carbamate	A	A	A	A	A	A	A	C	C	C	B	B
Ethyl Cellulose	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl Chloride	A	A	A	A	A	A	A	C	C	C	C	C
Ethyl Ether	A	A	A	A	A	A	A	B	B	C	B	B
Ethyl Hexoate	A	A	A	A	A	A	A	C	C	–	–	B
Ethylene	A	A	A	A	A	A	A	A	A	B	B	C
Ethylene Bromide	A	A	A	A	A	A	A	C	C	C	C	C
Ethylene Dibromide	A	A	A	A	A	A	A	C	C	C	C	C
Ethylene Dichloride	A	A	A	A	A	A	A	C	C	C	C	C
Ethylene Glycol	A	A	A	A	A	A	A	A	A	A	A	A
Ethyleneimine	–	–	A	–	–	A	A	C	C	C	C	C
Ethylene Oxide	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Ethylene Thiourea	A	A	A	A	A	A	A	–	–	–	C	C
Ethylidine Chloride	A	A	A	A	A	A	A	C	C	C	C	C
Exhaust, engine or combustion	–	–	–	–	–	–	–	B	B	B	B	B
Ferric Chloride	A	A	A	C	C	A	A	A	B	B[3]	B	B
Ferric Phosphate	A	A	A	–	–	A	A	B	B	B	B	B
Ferric Sulfate	A	A	A	B	B	A	A	A	A	A	A	A
Fluorine, Gas	-	-	-	-	-	A[13]	C	C	C	C	C	C
Fluorine, Liquid	-	-	-	C	C	-	C	C	C	C	C	C
Fluorine Dioxide	C	C	C	C	C	C	C	C	C	C	C	C
Formaldehyde	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	B[1]	B[1]	A[1]
Formic Acid	A	A	A	B	B	A	A	C	C	–	B	B
Fuel Oil	A	A	A	A	A	A	A	A	A	B	B	C
Fuel Oil, Acid	A	A	A	A	A	A	A	A	A	B	B	C
Furfural	A	A	A	A	A	A	A	C	C	C	B	B
Gasoline, Refined	A	A	A	A	A	A	A	A	A	C	B	C
Gasoline, Sour	A	A	A	A	A	A	A	A	A	C	B	C
Gelatin[9]	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	A	A	A	A	A	A	A	A	A	A	A	A
Glue, Protein Base	A	A	A	A	A	A	A	A	A	A	A	A
Glycerine, Glycerol	A	A	A	A	A	A	A	A	A	A	A	A
Glycol	A	A	A	A	A	A	A	A	A	A	A	A
Grain Alcohol [9]	A	A	A	A	A	A	A	A	A	A	A	A
Grease, Petroleum Base	A	A	A	A	A	A	A	A	A	C	–	C
Green Sulfate Liquor	C	B	A	–	A	A	A	C	C	C	C	C
Heptachlor	A	A	A	–	–	A	A	C	C	C	C	C
Heptane	A	A	A	A	A	A	A	A	A	C	B	C
Hexachlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C
Hexachlorobutadiene	A	A	A	A	A	A	A	C	C	C	C	C

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Hexachlorocyclopentadiene	A	A	A	A	A	A	A	C	C	C	C	C
Hexachloroethane	A	A	A	–	–	A	A	C	C	C	C	C
Hexadecane	A	A	A	A	A	A	A	A	A	C	B	C
Hexamethylene Diisocyanate	A	A	A	A	A	A	A	–	–	C	–	C
Hexamethylphosphoramide	A	A	A	A	A	A	A	–	–	C	–	–
Hexane	A	A	A	A	A	A	A	A	A	C	B	C
Hexone	A	A	A	A	A	A	A	C	C	C	C	B
Hydraulic Oil, Mineral	A	A	A	A	A	A	A	A	A	B	B	C
Hydraulic Oil, Synthetic (Phosphate Esters)	A	A	A	A	A	A	A	C	C	C	C	B
Hydrazine	A	A	A	A	A	A	A	C	C	B	B	B
Hydrobromic Acid	A	A	A	C	C	A	A	C	C	C	C	C
Hydrochloric Acid	A	A	A	C	C	A	A	C	C	C	C	C
Hydrocyanic Acid	A	A	A	A	A	A	A	A	A	B	B	A
Hydrofluoric Acid, Anhydrous	C	C	C	C	C	A	A	C	C	C	C	C
HF Acid, Less than 65%, Above 150°F	C	C	C	C	C	A	A	C	C	C	C	C
HF Acid, 65% to Anhydrous,Above 150°F	C	C	C	C	C	A	A	C	C	C	C	C
HF Acid, Up to Anhydrous,150°F & below	C	C	A	C	C	A	A	C	C	C	C	C
Hydrofluorosilicic Acid	C	C	A	C	C	A	A	C	C	C	C	C
Hydrofluosilicic Acid	C	C	A	C	C	A	A	C	C	C	C	C
Hydrogen	A	A	A	A	A	A	A	A	A	A	A	A
Hydrogen Bromide	A	A	A	–	–	A	A	C	C	C	C	C
Hydrogen Fluoride	C	C	C	C	C	A	A	C	C	C	C	C
Hydrogen Peroxide, 10%	A	A	A	A	A	A	A	B	B	B	B	B
Hydrogen Peroxide, 10-90%	A	A	A	B	B	A	C	B	B	–	C	B
Hydrogen Sulfide, Dry or Wet	A	A	A	A	A	A	A	B	B	B	B	B
Hydroquinone	A	A	A	A	A	A	A	C	C	B	C	C
Iodine Pentafluoride	–	–	–	–	–	–	C	C	C	C	C	C
Iodomethane	A	A	A	A	A	A	A	C	C	C	B	–
Isobutane	A	A	A	A	A	A	A	A	A	C	B	C
Isooctane	A	A	A	A	A	A	A	A	A	C	B	C
Isophorone	A	A	A	A	A	A	A	C	C	C	C	B
Isopropyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Jet Fuels (JP A, B and JP4 thru JP8)	A	A	A	A	A	A	A	A	A	C	B	C
Jet Fuels, JP9 and JP10	A	A	A	A	A	A	A	C	C	C	C	C
Kerosene	A	A	A	A	A	A	A	A	A	C	B	C
Lacquer Solvents	A	A	A	A	A	A	A	C	C	C	C	C
Lacquers	A	A	A	A	A	A	A	C	C	C	C	C
Lactic Acid, 150°F and below	A	A	A	A	A	A	A	A	A	A	A	A
Lactic Acid, Above 150°F	A	A	A	A	A	A	A	–	–	–	–	–
Lime Saltpeter (Calcium Nitrates)	A	A	A	–	–	A	C	B	B	B	B	B
Lindane	A	A	A	B	B	A	A	C	C	C	C	C
Linseed Oil	A	A	A	A	A	A	A	A	A	B	A	B
Liquified Petroleum Gas (LPG)	A	A	A	A	A	A	A	A	A	B	B	C
Lithium Bromide	A	A	A	A	A	A	A	A	A	–	A	A
Lithium Carbonate	A	A	A	A	A	A	A	C	C	A	A	A
Lithium, Elemental	C	C	C	C	C	C	C	C	C	C	C	C
Lithium Hydroxide	A	A	A	A	A	A	A	B	B	B	B	B
Lubricating Oils, Refined	A	A	A	A	A	A	A	A	A	B	B	C
Lubricating Oils, Mineral or Petroleum Types	A	A	A	A	A	A	A	A	A	B	B	C
Lubricating Oils, Sour	A	A	A	A	A	A	A	B	B	B	B	C
Lye	C	B	A[5]	C	A[5]	A[10]	A[5]	C	C	C	C	C
Magnesium Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Magnesium Hydroxide	A	A	A	A	A	A	A	B	B	B	B	B
Magnesium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Maleic Acid	A	A	A	A	A	A	A	B	B	B	B	A

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Maleic Anhydride	A	A	A	A	A	A	A	C	C	–	C	C
Mercuric Chloride	A	A	A	C	C	A	A	A	A	A	B	A
Mercury	A	A	A	A	A	A	A	A	A	A	A	A
Methane	A	A	A	A	A	A	A	A	A	C	B	C
Methanol, Methyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Methoxychlor	A	A	A	A	A	A	A	C	C	C	C	C
Methylacrylic Acid	A	A	A	–	–	A	A	C	C	C	C	C
Methyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
2-Methylaziridine	–	–	A	–	–	A	A	C	C	C	C	C
Methyl Bromide	A	A	A	A	A	A	A	C	C	C	C	C
Methyl Chloride	A	A	A	B	B	A	A	C	C	C	C	C
Methyl Chloroform	A	A	A	A	A	A	A	C	C	C	C	C
4,4 Methylene Bis(2-chloroaniline)	A	A	A	–	–	A	A	C	C	C	C	C
Methylene Chloride	A	A	A	A	A	A	A	C	C	C	C	C
4,4-Methylene Dianiline	A	A	A	A	A	A	A	C	C	C	C	C
Methylene Diphenyldiisocyanate	A	A	A	–	–	A	A	C	C	C	C	–
Methyl Ethyl Ketone	A	A	A	A	A	A	A	C	C	C	C	C
Methyl Hydrazine	A	A	A	A	A	A	A	C	C	B	B	B
Methyl Iodide	A	A	A	A	A	A	A	C	C	C	B	–
Methyl Isobutyl Ketone (MIBK)	A	A	A	A	A	A	A	C	C	C	C	B
Methyl Isocyanate	A	A	A	A	A	A	A	–	–	C	–	–
Methyl Methacrylate	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
N-Methyl-2-Pyrrolidone	A	A	A	A	A	A	A	C	C	B	–	–
Methyl Tert. Butyl Ether (MTBE)	A	A	A	A	A	A	A	B	B	C	C	C
Milk [9]	A	A	A	A	A	A	A	A	A	A	A	A
Mineral Oils	A	A	A	A	A	A	A	A	A	B	B	C
Mobiltherm 600	A	A	A	A	A	A	A	A	A	C	–	C
Mobiltherm 603	A	A	A	A	A	A	A	A	A	C	–	C
Mobiltherm 605	A	A	A	A	A	A	A	A	A	C	–	C
Mobiltherm Light	A	A	A	A	A	A	A	C	C	C	C	C
Molten Alkali Metals	C	C	C	C	C	C	C	C	C	C	C	C
Monomethylamine	A	A	A	A	A	A	A	C	C	B	A	B
MultiTherm 100	A	A	A	A	A	A	A	A	A	C	B	C
MultiTherm 503	A	A	A	A	A	A	A	A	A	C	–	C
MultiTherm IG-2	A	A	A	A	A	A	A	A	A	C	B	C
MultiTherm PG-1	A	A	A	A	A	A	A	A	A	C	B	C
Muriatic Acid	A	A	A	C	C	A	A	C	C	C	C	C
Naphtha	A	A	A	A	A	A	A	A	A	C	B	C
Naphthalene	A	A	A	A	A	A	A	C	C	C	C	C
Naphthols	A	A	A	–	–	A	A	–	–	–	–	–
Natural Gas	A	A	A	A	A	A	A	A	A	B	B	B
Nickel Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Nickel Sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Nitric Acid, Less than 30%	A	A	A	A	A	A	C	C	C	C	C	C
Nitric Acid, Above 30%	A	A	A	A	A	A	C	C	C	C	C	C
Nitric Acid, Crude	A	A	A	–	–	A	C	C	C	C	C	C
Nitric Acid, Red Fuming	A	A	A	B	B	A	C	C	C	C	C	C
Nitrobenzene	A	A	A	A	A	A	A	C	C	C	C	C
4-Nitrobiphenyl	A	A	A	A	A	A	A	C	C	C	C	C
2-Nitro-Butanol	A	A	A	–	–	A	–	C	C	–	C	–
Nitrocalcite (Calcium Nitrate)	A	A	A	–	–	A	C	B	B	B	B	B
Nitrogen	A	A	A	A	A	A	A	A	A	A	A	A
Nitrogen Tetroxide	A	A	A	–	–	A	–	C	C	C	C	C
Nitrohydrochloric Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C
Nitromethane	A	A	A	A	A	A	A	C	C	–	C	–

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2-Nitro-2-Methyl Propanol	A	A	A	–	–	A	–	C	C	–	C	–
Nitromuriatic Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C
4-Nitrophenol	A	A	A	–	–	A	A	C	C	C	C	C
2-Nitropropane	A	A	A	A	A	A	A	C	C	–	C	C
N-Nitrosodimethylamine	A	A	A	A	A	A	A	B	B	B	–	–
N-Nitroso-N-Methylurea	A	A	A	–	–	A	A	–	–	–	–	–
N-Nitrosomorpholine	A	A	A	A	A	A	A	C	C	–	C	–
Norge Niter (Calcium Nitrate)	A	A	A	–	–	A	C	B	B	B	B	B
Norwegian Saltpeter (Calcium Nitrate)	A	A	A	–	–	A	C	B	B	B	B	B
N-Octadecyl Alcohol	A	A	A	A	A	A	A	A	A	A	–	A
Octane	A	A	A	A	A	A	A	A	A	C	B	C
Oil, Petroleum	A	A	A	A	A	A	A	A	A	B	B	C
Oils, Animal and Vegetable [9]	A	A	A	A	A	A	A	A	A	C	B	B
Oleic Acid	A	A	A	A	A	A	A	B	B	–	C	C
Oleum	A	–	C	C	C	A	–	C	C	C	C	C
Orthodichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C
Oxalic Acid	A	A	A	B	B	A	A	C	C	–	B	B
Oxygen, Gas	See Note 6							C	C	C	C	C
Ozone	See Note 6						C	C	C	C	C	C
Palmitic Acid	A	A	A	A	A	A	A	A	A	B	B	A
Paraffin	A	A	A	A	A	A	A	A	A	B	B	C
Paratherm HE	A	A	A	A	A	A	A	A	A	C	B	C
Paratherm NF	A	A	A	A	A	A	A	A	A	C	–	C
Parathion	A	A	A	A	A	A	A	C	C	C	C	C
Paraxylene	A	A	A	A	A	A	A	C	C	C	C	C
Pentachloronitrobenzene	A	A	A	–	–	A	A	C	C	C	C	C
Pentachlorophenol	A	A	A	A	A	A	A	C	C	C	C	C
Pentane	A	A	A	A	A	A	A	A	A	C	B	C
Perchloric Acid	A	A	A	C	C	A	C	C	C	C	C	C
Perchloroethylene	A	A	A	A	A	A	A	C	C	C	C	C
Petroleum Oils, Crude	A	A	A	A	A	A	A	A	A	B	B	C
Petroleum Oils, Refined	A	A	A	A	A	A	A	A	A	B	B	C
Phenol	A	A	A	A	A	A	A	C	C	C	C	B
p-Phenylenediamine	A	A	A	A	A	A	A	C	C	C	–	–
Phosgene	A	A	A	B	B	A	A	C	C	–	–	B
Phosphate Esters	A	A	A	A	A	A	A	C	C	C	C	B
Phosphine	A	A	A	A	A	A	A	–	–	–	–	–
Phosphoric Acid, Crude	C	C	A	C	B	A	A	C	C	C	C	C
Phosphoric Acid, Less than 45%	A	A	A	A	A	A	A	C	C	C	C	C
Phosphoric Acid, Above 45%, to 150°F	B	B	A	B	B	A	A	C	C	C	C	C
Phosphoric Acid, Above 45%, Above 150°F	C	B	A	C	B	A	A	C	C	C	–	–
Phosphorus, Elemental	A	A	A	A	A	A	A	C	C	C	C	C
Phosphorus Pentachloride	A	A	A	B	B	A	A	C	C	C	C	C
Phthalic Acid	A	A	A	A	A	A	A	C	C	–	B	–
Phthalic Anhydride	A	A	A	A	A	A	A	C	C	–	C	B
Picric Acid, Molten	–	–	–	–	–	–	–	–	–	–	–	–
Picric Acid, Water Solution	A	A	A	A	A	A	A	B	B	B	B	B
Pinene	A	A	A	A	A	A	A	A	A	C	B	C
Piperidine	A	A	A	A	A	A	A	C	C	C	C	C
Polyacrylonitrile	A	A	A	A	A	A	A	A	A	A	A	A
Polychlorinated Biphenyls	A	A	A	A	A	A	A	C	C	C	C	C
Potash, Potassium Carbonate	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Acetate	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Bichromate	A	A	A	A	A	A	C	A	A	B	B	A
Potassium Chromate, Red	A	A	A	A	A	A	C	A	A	B	B	A

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Potassium Dichromate	A	A	A	A	A	A	C	A	A	B	B	A
Potassium, Elemental	C	C	C	C	C	C	C	C	C	C	C	C
Potassium Hydroxide	C	B	A[5]	C	A[5]	A[10]	A[5]	C	C	C	C	C
Potassium Nitrate	A	A	A	A	A	A	–	B	B	B	B	B
Potassium Permanganate	A	A	A	A	A	A	–	B	B	–	B	B
Potassium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Producer Gas	A	A	A	A	A	A	A	A	A	C	B	C
Propane	A	A	A	A	A	A	A	A	A	C	B	C
1,3-Propane Sultone	A	A	A	–	–	A	A	–	–	–	–	–
Beta-Propiolactone	A	A	A	A	A	A	A	C	C	C	C	B
Propionaldehyde	A	A	A	A	A	A	A	C	C	C	–	–
Propoxur (Baygon)	A	A	A	A	A	A	A	C	C	C	–	–
Propyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Propyl Nitrate	A	A	A	A	A	A	A	C	C	C	C	C
Propylene	A	A	A	A	A	A	A	C	C	C	C	C
Propylene Dichloride	A	A	A	A	A	A	A	C	C	C	C	C
Propylene Glycol	A	A	A	A	A	A	A	A	A	A	-	A
Propylene Oxide	A	A	A	A	A	A	A	C	C	C	C	B
1,2-Propylenimine	–	–	A	–	–	A	A	C	C	C	C	C
Prussic Acid, Hydrocyanic Acid	A	A	A	A	A	A	A	A	A	B	B	A
Pyridine	A	A	A	B	B	A	A	C	C	C	C	B
Quinoline	A	A	A	B	B	A	A	C	C	C	C	C
Quinone	A	A	A	A	A	A	–	–	–	–	–	–
Refrigerants	See Specific Ratings Below											
R 10	A	A	A	B	B	A	A	C	C	C	C	C
R 11	A	A	A	A	A	A	A	A	A	C	C	C
R 12	A	A	A	A	A	A	A	A	A	A	A	A
R 13	A	A	A	A	A	A	A	A	A	A	A	A
R 13B1	A	A	A	A	A	A	A	A	A	A	A	A
R 21	A	A	A	A	A	A	A	C	C	C	A	C
R 22	A	A	A	A	A	A	A	B	B	B	A	A
R 23	A	A	A	A	A	A	A	C	C	A	A	A
R 31	A	A	A	A	A	A	A	C	C	A	A	A
R 32	A	A	A	A	A	A	A	A	A	A	A	A
R 112	A	A	A	A	A	A	A	A	A	C	A	C
R 113	A	A	A	A	A	A	A	A	A	A	A	C
R 114	A	A	A	A	A	A	A	A	A	A	A	A
R 114B2	A	A	A	A	A	A	A	A	A	C	A	C
R 115	A	A	A	A	A	A	A	A	A	A	A	A
R 123	A	A	A	A	A	A	A	C[2]	C[2]	C	A[2]	C
R 124	A	A	A	A	A	A	A	C	C	A	A	A
R 125	A	A	A	A	A	A	A	–	–	A	A	A
R 134a	A	A	A	A	A	A	A	B	B	A	A	A
R 141b	A	A	A	A	A	A	A	A	A	–	A	–
R 142b	A	A	A	A	A	A	A	A	A	A	A	A
R 143a	A	A	A	A	A	A	A	–	–	A	A	A
R 152a	A	A	A	A	A	A	A	A	A	A	A	A
R 218	A	A	A	A	A	A	A	A	A	A	A	A
R 290 (Propane)	A	A	A	A	A	A	A	A	A	C	B	C
R 410a	A	A	A	A	A	A	A	-	-	A	A	A
R 413a	A	A	A	A	A	A	A	B	B	C	B	C
R 414a	A	A	A	A	A	A	A	C	C	C	B	C
R 500	A	A	A	A	A	A	A	A	A	–	A	–
R 502	A	A	A	A	A	A	A	A	A	A	A	–

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R 503	A	A	A	A	A	A	A	C	C	A	A	A
R 507	A	A	A	A	A	A	A	B	B	–	A	A
R 600a (isobutane)	A	A	A	A	A	A	A	A	A	C	B	C
R 717 (Ammonia)	A	A	A	A	A	A	A	B	B	–	A	A
R 744 (Carbon Dioxide)	A	A	A	A	A	A	A	A	A	A	A	A
R1234 yf	A	A	A	A	A	A	A	B	B	–	A	B
C316	A	A	A	A	A	A	A	A	A	A	A	A
C318	A	A	A	A	A	A	A	A	A	A	A	A
HP62	A	A	A	A	A	A	A	A	A	–	A	–
HP80	A	A	A	A	A	A	A	–	–	–	A	–
HP81	A	A	A	A	A	A	A	–	–	–	A	–
Refrigerant Oil - Polyalphaolefin (PAO)	A	A	A	A	A	A	A	A	A	-	A	A
Refrigerant Oil - Polyolester (POE)	A	A	A	A	A	A	A	A	A	C	C	B
Refrigerant Oil - Polyalkylene Glycol (PAG)	A	A	A	A	A	A	A	A	A	C	C	A
Refrigerant Oil - Mineral Oil	A	A	A	A	A	A	A	A	A	C	B	C
Salt Water	A	A	A	B	B	A	A	A	A	A	A	A
Saltpeter, Potassium Nitrate	A	A	A	A	A	A	–	B	B	B	B	B
2,4-D Salts and Esters	A	A	A	–	–	A	A	C	C	C	C	C
Sewage	A	A	A	A	A	A	A	A	A	B	B	B
Silver Nitrate	A	A	A	A	A	A	–	B	B	A	A	A
Skydrols	A	A	A	A	A	A	A	C	C	C	C	B
Soap Solutions	A	A	A	A	A	A	A	A	A	A	A	A
Soda Ash, Sodium Carbonate	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Bicarbonate, Baking Soda	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Bisulfate (Dry)	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Bisulfite	A	A	A	B	B	A	A	A	A	A	A	A
Sodium Chlorate	A	A	A	A	A	A	A	C	C	–	C	C
Sodium Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Sodium Cyanide	C	C	A	C	C	A	A	C	C	C	C	C
Sodium, Elemental	C	C	C	C	C	C	C	C	C	C	C	C
Sodium Hydroxide	C	B	A[5]	C	A[5]	A[10]	A[5]	C	C	C	C	C
Sodium Hypochlorite	A	A	A	B	B	A	–	C	C	–	C	C
Sodium Metaborate Peroxyhydrate	A	A	A	B	B	A	C	B	B	B	B	B
Sodium Metaphosphate	B	A	A	B	A	A	A	A	A	A	A	A
Sodium Nitrate	A	A	A	A	A	A	–	B	B	B	B	B
Sodium Perborate	A	A	A	B	B	A	C	B	B	B	B	B
Sodium Peroxide	A	A	A	A	A	A	C	C	C	C	C	C
Sodium Phosphate, Monobasic	A	A	A	A	A	A	A	B	B	B	B	B
Sodium Phosphate, Dibasic	B	B	A	B	A	A	A	B	B	B	B	B
Sodium Phosphate, Tribasic	C	B	A	C	A	A	A	C	C	C	C	C
Sodium Silicate	B	B	A	B	A	A	A	B	B	B	B	B
Sodium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Sulfide	A	A	A	A	A	A	A	A	A	A	A	A
Sodium Superoxide	A	A	A	A	A	A	C	C	C	C	C	C
Sodium Thiosulfate, “Hypo”	A	A	A	A	A	A	A	A	A	A	A	A
Soybean Oil [9]	A	A	A	A	A	A	A	A	A	C	B	B
Stannic Chloride	A	A	A	C	C	A	A	B	B	B	–	B
Steam, Saturated, to 150 psig[11]	A	A	A	A	A	A	A	A[11]	B[8]	B[8]	B[8]	B[8]
Steam, Superheated	–	–	–	–	–	–	–	C	C	C	C	C
Stearic Acid	A	A	A	A	A	A	A	A	A	A	A	A
Stoddard Solvent	A	A	A	A	A	A	A	A	A	C	B	C
Styrene	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Styrene Oxide	A	A	A	A	A	A	A	C	C	C	C	C
Sulfur Chloride	A	A	A	C	C	A	A	C	C	C	C	C
Sulfur Dioxide	A	A	A	A	A	A	A	C	C	C	C	B

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Sulfur, Molten	A	A	A	A	A	A	A	C	C	C	B	C
Sulfur Trioxide, Dry	A	A	A	A	A	A	–	C	C	C	C	C
Sulfur Trioxide, Wet	A	A	A	B	B	A	B	C	C	C	C	C
Sulfuric Acid, 10%, 150°F and below	A	A	A	B	B	A	–	C	C	C	C	C
Sulfuric Acid, 10%, Above 150°F	A	A	A	C	C	A	–	–	–	C	C	C
Sulfuric Acid, 10-75%, 500°F and below	A	A	A	C	C	A	–	–	–	C	C	C
Sulfuric Acid, 75-98%, 150°F and below	A	A	B	C	C	A	C	C	C	C	C	C
Sulfuric Acid, 75-98%, 150°F to 500°F	A	B[15]	B	C	C	A	C	C	C	C	C	C
Sulfuric Acid, Fuming	A	–	C	C	C	A	C	C	C	C	C	C
Sulfurous Acid	A	A	A	B	B	A	–	B	B	B	–	–
Syltherm 800	A	A	A	A	A	A	A	B	B	B	B	B
Syltherm XLT	A	A	A	A	A	A	A	B	B	B	B	B
Tannic Acid	A	A	A	–[7]	–[7]	A	A	A	A	A	A	A
Tar	A	A	A	A	A	A	A	A	A	C	B	C
Tartaric Acid	A	A	A	A	A	A	A	A	A	A	A	A
2,3,7,8-TCDB-p-Dioxin	A	A	A	–	–	A	A	C	C	C	C	C
Tertiary Butyl Amine	A	A	A	A	A	A	A	B	B	–	C	B
Tetrabromoethane	A	A	A	A	A	A	A	C	C	C	C	C
Tetrachlorethane	A	A	A	A	A	A	A	C	C	C	C	C
Tetrachloroethylene	A	A	A	A	A	A	A	C	C	C	C	C
Tetrahydrofuran, THF	A	A	A	A	A	A	A	C	C	C	C	C
Therminol 44	A	A	A	A	A	A	A	C	C	C	C	C
Therminol 55	A	A	A	A	A	A	A	C	C	C	C	C
Therminol 59	A	A	A	A	A	A	A	C	C	C	C	C
Therminol 60	A	A	A	A	A	A	A	C	C	C	C	C
Therminol 66	A	A	A	A	A	A	A	C	C	C	C	C
Therminol 75	A	A	A	A	A	A	A	C	C	C	C	C
Therminol D12	A	A	A	A	A	A	A	B	B	C	B	C
Therminol LT	A	A	A	A	A	A	A	C	C	C	C	C
Therminol VP-1	A	A	A	A	A	A	A	C	C	C	C	C
Therminol XP	A	A	A	A	A	A	A	A	A	C	B	C
Thionyl Chloride	A	A	A	C	C	A	A	C	C	C	C	C
Titanium Sulfate	A	A	A	A	A	A	A	C	C	C	C	C
Titanium Tetrachloride	A	A	A	C	C	A	A	B	C	C	C	C
Toluene	A	A	A	A	A	A	A	C	C	C	C	C
2,4-Toluenediamine	A	A	A	A	A	A	A	–	–	C	C	C
2,4-Toluenediisocyanate	A	A	A	–	–	A	A	C	C	C	C	B
Toluene Sulfonic Acid	A	A	A	–	–	A	A	C	C	C	C	C
o-Toluidine	A	A	A	A	A	A	A	C	C	C	C	C
Toxaphine	A	A	A	–	–	A	A	C	C	C	C	C
Transformer Oil (Mineral Type)	A	A	A	A	A	A	A	A	A	C	B	C
Transmission Fluid A	A	A	A	A	A	A	A	A	A	C	B	C
Trichloroacetic Acid	A	A	A	C	C	A	A	C	C	C	C	C
1,2,4- Trichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C
1,1,2-Trichloroethane	A	A	A	A	A	A	A	C	C	C	C	C
Trichloroethylene	A	A	A	A	A	A	A	C	C	C	C	C
2,4,5-Trichlorophenol	A	A	A	–	–	A	A	C	C	C	C	C
2,4,6-Trichlorophenol	A	A	A	–	–	A	A	C	C	C	C	C
Tricresylphosphate	A	A	A	A	A	A	A	C	C	C	C	B
Triethanolamine	A	A	A	–	–	A	A	B	B	B	B	B
Triethyl Aluminum	A	A	A	–	–	A	A	C	C	–	C	–
Triethylamine	A	A	A	A	A	A	A	B	B	B	B	A
Trifluralin	A	A	A	A	A	A	A	C	C	C	C	C
2,2,4-Trimethylpentane	A	A	A	A	A	A	A	A	A	C	B	C
Tung Oil	A	A	A	A	A	A	A	A	A	C	B	C

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Turpentine	A	A	A	A	A	A	A	A	A	C	C	C
UCON Heat Transfer Fluid 500	A	A	A	A	A	A	A	A	A	B	B	B
UCON Process Fluid WS	A	A	A	A	A	A	A	A	A	B	B	B
Urea, 150ºF and below	A	A	A	A	A	A	A	B	B	–	A	A
Urea, above 150ºF	A	A	A	A	A	A	A	–	–	–	–	–
Varnish	A	A	A	A	A	A	A	B	B	C	C	C
Vegetable Oil [9]	A	A	A	A	A	A	A	A	A	C	B	B
Vinegar [9]	A	A	A	A	A	A	A	B	B	B	A	A
Vinyl Acetate	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	B[1]	B[1]	C	B[1]	B[1]
Vinyl Bromide	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Vinyl Chloride	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Vinylidene Chloride	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	A[1]	C	C	C	C	C
Vinyl Methacrylate	A	A	A	A	A	A	A	C	C	C	C	C
Water, Acid Mine, with Oxidizing Salt	A	A	A	C	C	A	–	B	B	–	B	–
Water, Acid Mine, No Oxidizing Salts	A	A	A	A	A	A	A	A	A	–	B	A
Water, Distilled	A	A	A	A	A	A	A	A	A	A	A	A
Water, Return Condensate (<225°F)	A	A	A	A	A	A	A	A	A	A	A	A
Water, Seawater	A	A	A	B	B	A	A	A	A	A	A	A
Water, Tap[14]	A	A	A	A	A	A	A	A	A	A	A	A
Whiskey and Wines [9]	A	A	A	A	A	A	A	A	A	A	A	A
Wood Alcohol	A	A	A	A	A	A	A	A	A	A	A	A
Xceltherm 550	A	A	A	A	A	A	A	B	B	C	B	C
Xceltherm 600	A	A	A	A	A	A	A	A	A	C	B	C
Xceltherm MK1	A	A	A	A	A	A	A	C	C	C	C	C
Xceltyherm XT	A	A	A	A	A	A	A	C	C	C	C	C
Xylene	A	A	A	A	A	A	A	C	C	C	C	C
Zinc Chloride	A	A	A	B	B	A	A	A	A	A	A	A
Zinc Sulfate	A	A	A	A	A	A	A	A	A	A	A	A

NOTES:

1 Consult the factory regarding your specific applications. See “Monomers” in Gasketing catalog Terms section.

2 There have been conflicting field reports concerning the suitability of NBR and neoprene bound gaskets in 123. End users should take note.

3 Style 9800 is rated “A”.

4 Some chromium plating baths contain fluorides that can attack silica and silicate type fillers in some GYLON® styles. If the bath is known to contain little or no fluoride, all GYLON® styles should be suitable for use.

5 These GYLON® styles can be expected to be suitable to 60% concentration at temperatures up to 250°F (121°C).

6 Use GYLON® styles 3502, 3503, 3505, 3562, 3563. These styles are specially processed, cleaned and packaged for oxygen service.

7 This GYLON® contains a stainless steel insert. There is a possibility that this might contribute traces of iron to form iron tannates, resulting in undesirable color in the tannic acid.

8 These styles are not preferred choices for steam service, but are successful when adequately compressed.

9 If a gasketing material that conforms to FDA requirements is desired, contact factory for specific recommendations. GYLON® 3522 is also 3A approved for dairy service.

10 These GYLON® gasket styles can be expected to be suitable to 75% concentration at temperatures up to 400°F (204°C).

11 Minimum recommended assembly stress = 4,800psi. Preferred assembly stress = 6,000-10,000psi. Gasket thickness of 1/16” strongly preferred. For saturated steam above 150psig, consult Garlock Engineering.

12 Some detergent solutions are strongly alkaline and/or may contain bleach. Please contact Applications Engineering.

13 GYLON® 3522 & 3545 is suitable for up to 200°F wet or dry fluorine gas. Above this please consult Applications Engineering.

14 If NSF 61 Approved gaskets are required contact Applications Engineering.

15 GYLON® 3504 is acceptable for use in sulfuric acid (up to 99%) up to 250ºF. To optimize the performance of the assembly and minimize media permeation we highly recommend using the recommended installation instructions on pages 45 & 46 of the catalog (with emphasis on the re-torque) and a minimum gasket stress of 4,800 psi.

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