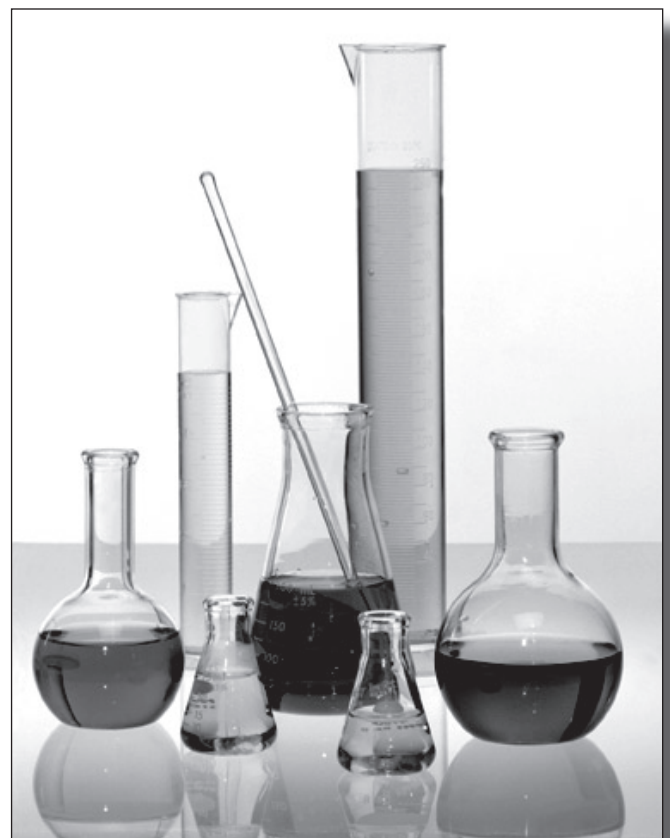


Garlock

Chemical Resistance Manual

- GYLON® Gasketing
- BLUE-GARD® Gasketing
- High-Temp Gasketing
- Inorganic Fiber Gasketing
- Other Compressed Sheet



Chemical Resistance of Garlock Compressed Sheet and GYLON®

A general guide for selection of gasketing material

Key: A = Suitable
 B = Depends on operating conditions
 C = Unsuitable
 - = No data or insufficient evidence

Footnotes explained on page 13.

Medium	Garlock Style Number													
	GYLON®							IFG 5500 G-9900 9850	9800	ST-706	2900 ¹⁴ 3001 CP-3900	2920 3200 CP-3920	2930 3300 3800	IFG 5507 3700
	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Abietic Acid	A	A	A	A	A	A	A	A	-	A	A	-	-	-
Acetaldehyde	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Acetamide	A	A	A	A	A	A	A	A	C	A	A	C	A	B
Acetic Acid (Crude, Glacial, Pure)	A	A	A	A	A	A	A	B ¹	B ¹	B ¹	B ¹	B ¹	B ¹	B ¹
Acetic Anhydride	A	A	A	A	A	A	A	B ¹	B ¹	B ¹	B ¹	B ¹	B ¹	B ¹
Acetone	A	A	A	A	A	A	A	C	B	C	C	B	B	A
Acetonitrile	A	A	A	A	A	A	A	C	-	C	C	-	B	B
Acetophenone	A	A	A	A	A	A	A	C	C	C	C	C	C	B
2-Acetylaminofluorene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Acetylene	A	A	A	A	A	A	A	A	B	A	A ¹²	B	A	B
Acrolein	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	B ¹	C	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	C	C
Acrylic Acid	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	C	C	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	C	C
Air	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Allyl Acetate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Allyl Chloride	A	A	A	B	B	A	A	C	C	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	C	C
Aluminum Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Aluminum Fluoride	C	-	A	C	C	A	A	C	C	C	C	C	C	C
Aluminum Hydroxide (Solid)	A	A	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	B	B
Aluminum Sulfate	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Alums	A	A	A	B	B	A	A	A	A	A	A	A	A	A
4-Aminodiphenyl	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Ammonia, Gas, 150°F and below	A	A	A	A	A	A	A	A	A	B	A	A	A	A
Gas, Above 150°F	A	A	A	A	A	A	A	C	C	C	C	C	B	B
Liquid, Anhydrous	A	A	A	A	A	A	A	B	-	B	B	-	A	A
Ammonium Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Ammonium Hydroxide	A	A	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	B	B
Ammonium Phosphate, Monobasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Dibasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Tribasic	A	A	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	A	A
Amyl Acetate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Amyl Alcohol	A	A	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	C	C	B
Aniline Dyes	A	A	A	A	A	A	A	C	B	C	C	B	B	B
o-Anisidine	A	A	A	A	A	A	A	C	C	C	C	C	C	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Aqua Regia	A	A	A	B	B	A	C	C	C	C	C	C	C	C
Aroclors	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Asphalt	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Aviation Gasoline	A	A	A	A	A	A	A	B	C	B	B	C	B	C
Barium Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Barium Hydroxide	A	A	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	A	A
Baygon	A	A	A	A	A	A	A	C	C	C	C	C	-	-
Beer ¹⁰	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Benzaldehyde	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Benzene, Benzol	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Benzidine	A	A	A	A	A	A	A	C	C	C	C	C	C	-
Benzoic Acid	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Benzonitrile	A	A	A	A	A	A	A	C	-	C	C	-	-	C
Benzotrichloride	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Benzoyl Chloride	A	A	A	-	-	A	A	C	-	C	C	-	C	C
Benzyl Alcohol	A	A	A	A	A	A	A	C	-	C	C	-	B	B
Benzyl Chloride	A	A	A	-	-	A	A	C	C	C	C	C	C	B
Biphenyl	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Bis(2-chloroethyl)ether	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Bis(chloromethyl)ether	A	A	A	-	-	A	A	C	C	C	C	C	C	B
Bis(2-ethylhexyl)phthalate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Black Sulfate Liquor	C	B	A	C	A	A	A	C	C	C	C	C	C	C
Blast Furnace Gas	A	A	A	A	A	A	A	B	C	B	B	C	B	C
Bleach (Sodium Hypochlorite)	A	A	A	B	B	A	-	C	-	C	C	-	C	C
Boiler Feed Water	A	A	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	A	A
Boric Acid	A	A	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	A	A
Bromine	A	A	A	C	C	A	-	C	C	C	C	C	C	C
Bromine Trifluoride	C	C	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	C	C
Bromomethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Butadiene	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	C	C	C	C	C	-	C
Butane	A	A	A	A	A	A	A	A	C	B	A ¹²	C	B	C
2-Butanone	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Butyl Acetate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Butyl Alcohol, Butanol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
n-Butyl Amine	A	A	A	A	A	A	A	B	-	B	B	-	C	B
tert-Butyl Amine	A	A	A	A	A	A	A	B	-	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	C	C
Butyric Acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Calcium Bisulfite	A	A	A	A	A	A	A	B	-	B	B	-	B	C
Calcium Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Calcium Cyanamide	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Calcium Hydroxide	-	A	A	-	A	A	A	A	A	A	A	A	A	A
Calcium Hypochlorite	A	A	A	B	B	A	-	B	B	B	C	C	C	C ²

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Calcium Nitrate	A	A	A	—	—	A	C	—	—	—	—	—	—	—
Calflo AF	A	A	A	A	A	A	A	A	C	A	A	C	—	C
Calflo FG	A	A	A	A	A	A	A	A	C	A	A	C	—	C
Calflo HTF	A	A	A	A	A	A	A	A	C	A	A	C	—	C
Calflo LT	A	A	A	A	A	A	A	A	C	A	A	C	—	C
Cane Sugar Liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Caprolactam	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Captan	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Carbaryl	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Carbolic Acid, Phenol	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Carbon Dioxide, Dry	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Wet	A	A	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	C	C
Carbon Monoxide	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Carbon Tetrachloride	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Carbonic Acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbonyl Sulfide	A	A	A	—	—	A	A	C	C	C	C	C	C	C
Castor Oil	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Catechol	A	A	A	A	A	A	A	C	B	C	C	B	—	—
Caustic Soda	C	B	A ⁶	C	A ⁶	A ¹¹	A ⁶	C	C	C	C	C	C	C
Cetane (Hexadecane)	A	A	A	A	A	A	A	A	C	A	A	C	B	C
China Wood Oil	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Chloramben	A	A	A	—	—	A	A	C	C	C	C	C	C	C
Chlorazotic Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C	C	C
Chlordane	A	A	A	—	—	A	A	C	C	C	C	C	C	C
Chlorinated Solvents, Dry	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Wet	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Chlorine, Dry	A	A	A	A	A	A	A	—	—	—	—	—	—	—
Wet	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Chlorine Dioxide	A	A	A	—	—	A	C	C	C	C	C	C	C	C
Chlorine Trifluoride	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Chloroacetic Acid	A	A	A	C	C	A	A	C	B	C	C	B	C	B
2-Chloroacetophenone	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Chloroazotic Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C	C	C
Chlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Chlorobenzilate	A	A	A	—	—	A	A	C	C	C	C	C	C	C
Chloroethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Chloroethylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Chloroform	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Chloromethyl Methyl Ether	A	A	A	—	—	A	A	C	C	C	C	C	C	C
Chloronitrous Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C	C	C
Chloroprene	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Chlorosulfonic Acid	A	A	A	—	—	A	—	C	C	C	C	C	C	C
Chrome Plating Solutions	— ⁵	— ⁵	A	— ⁵	B	A	A	C	C	C	C	C	C	C
Chromic Acid	A	A	A	B	B	A	C	C	C	C	C	C	C	C
Chromic Anhydride	A	A	A	B	B	A	C	C	C	C	C	C	C	C
Chromium Trioxide	A	A	A	B	B	A	C	C	C	C	C	C	C	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Citric Acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Coke Oven Gas	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Copper Chloride	A	A	A	C	C	A	A	A	A	A	A	A	A	A
Copper Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Corn Oil ¹⁰	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Cotton Seed Oil ¹⁰	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Creosote	A	A	A	A	A	A	A	B	C	B	B	C	B	C
Cresols, Cresylic Acid	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Crotonic Acid	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Crude Oil	A	A	A	B	B	A	A	A	B	A	A ¹²	B	B	C
Cumene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Cyclohexane	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Cyclohexanone	A	A	A	A	A	A	A	C	C	C	C	C	C	B
2,4-D, Salts and Esters	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Detergent Solutions	B	B	A	B	A	A	A	A	B	A	A	B	B	A
Diazomethane	A	A	A	A	A	A	A	-	-	-	-	-	-	-
Dibenzofuran	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dibenzylether	A	A	A	A	A	A	A	C	C	C	C	C	C	C
1,2-Dibromo-3-chloropropane	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Dibromoethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dibutyl Phthalate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Dibutyl Sebacate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
o-Dichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
1,4-Dichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
3,3-Dichlorobenzidene	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Dichloroethane (1,1 or 1,2)	A	A	A	A	A	A	A	C	C	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	C	C
Dichloroethyl Ether	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Dichloromethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
1,2-Dichloropropane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
1,3-Dichloropropene	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Dichlorvos	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Diesel Oil	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Diethanolamine	A	A	A	A	A	A	A	B	B	B	B	B	B	B
N,N-Diethylaniline	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Diethyl Carbonate	A	A	A	-	-	A	A	C	-	C	C	-	C	-
Diethyl Sulfate	A	A	A	A	A	A	A	C	C	C	C	C	-	C
3,3-Dimethoxybenzidene	A	A	A	A	A	A	A	C	C	C	C	C	-	-
Dimethylaminoazobenzene	A	A	A	A	A	A	A	-	-	-	-	-	-	-
N,N-Dimethyl Aniline	A	A	A	-	-	A	A	C	C	C	C	C	C	C
3,3-Dimethylbenzidine	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dimethyl Carbamoyl Chloride	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Dimethyl Ether	A	A	A	A	A	A	A	B	C	B	B	C	B	B
Dimethylformamide	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Dimethyl Hydrazine, Unsymmetrical	A	A	A	A	A	A	A	C	B	C	C	B	B	B
Dimethyl Phthalate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Dimethyl Sulfate	A	A	A	A	A	A	A	C	C	C	C	C	-	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
4,6-Dinitro-o-Cresol and Salts	A	A	A	A	A	A	A	C	C	C	C	C	C	C
2,4-Dinitrophenol	A	A	A	–	–	A	A	C	C	C	C	C	C	C
2,4-Dinitrotoluene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dioxane	A	A	A	A	A	A	A	C	C	C	C	C	C	B
1,2-Diphenylhydrazine	A	A	A	A	A	A	A	C	B	C	C	B	–	–
Diphyl DT	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowfrost	A	A	A	A	A	A	A	B	B	B	B	B	–	B
Dowfrost HD	A	A	A	A	A	A	A	B	B	B	B	B	–	B
Dowtherm 4000	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Dowtherm A	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowtherm E	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowtherm G	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowtherm HT	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowtherm J	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowtherm Q	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Dowtherm SR-1	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Epichlorohydrin	A	A	A	A	A	A	A	C	C	C	C	C	C	B
1,2-Epoxybutane	A	A	A	A	A	A	A	–	C	–	–	C	C	C
Ethane	A	A	A	A	A	A	A	A	B	B	A ¹²	B	B	C
Ethers	A	A	A	A	A	A	A	B	C	B	B	C	B	B
Ethyl Acetate	A	A	A	A	A	A	A	C	C	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	C	C	B ¹
Ethyl Alcohol ¹⁰	A	A	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	C	C
Ethyl Carbamate	A	A	A	A	A	A	A	C	C	C	C	C	B	B
Ethyl Cellulose	A	A	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	C	C
Ethyl Ether	A	A	A	A	A	A	A	B	C	B	B	C	B	B
Ethyl Hexoate	A	A	A	A	A	A	A	C	–	C	C	–	–	B
Ethylene	A	A	A	A	A	A	A	A	B	B	A	B	B	C
Ethylene Bromide	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Ethylene Dibromide	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Ethylene Dichloride	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Ethylene Glycol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyleneimine	–	–	A	–	–	A	A	C	C	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	C	C
Ethylene Thiourea	A	A	A	A	A	A	A	–	–	–	–	–	C	C
Ethylidene Chloride	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Ferric Chloride	A	A	A	C	C	A	A	A	A	A	B	B	B	B ⁴
Ferric Phosphate	A	A	A	–	–	A	A	B	B	B	B	B	B	B
Ferric Sulfate	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Fluorine, Gas	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fluorine, Liquid	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Fluorine Dioxide	C	C	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	B ¹	A ¹	A ¹	B ¹	B ¹	A ¹
Formic Acid	A	A	A	B	B	A	A	C	–	C	C	–	B	B
Fuel Oil	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Fuel Oil, Acid	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Furfural	A	A	A	A	A	A	A	C	C	C	C	C	B	B
Gasoline, Refined	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Sour	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Gelatin	A	A	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	A	A
Glue, Protein Base	A	A	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	A	A
Glycol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Grain Alcohol ¹⁰	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Grease, Petroleum Base	A	A	A	A	A	A	A	A	C	A	A	C	-	C
Green Sulfate Liquor	C	B	A	-	A	A	A	C	C	C	C	C	C	C
Heptachlor	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Heptane	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Hexachlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Hexachlorobutadiene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Hexachlorocyclopentadiene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Hexachloroethane	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Hexadecane	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Hexamethylene Diisocyanate	A	A	A	A	A	A	A	-	C	-	-	C	-	C
Hexamethylphosphoramide	A	A	A	A	A	A	A	-	C	-	-	C	-	-
Hexane	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Hexone	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Hydraulic Oil, Mineral	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Synthetic	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Hydrazine	A	A	A	A	A	A	A	C	B	C	C	B	B	B
Hydrobromic Acid	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Hydrochloric Acid	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Hydrocyanic Acid	A	A	A	A	A	A	A	A	B	A	A	B	B	A
Hydrofluoric Acid, up to Anhydrous, 150°F & below	C	C	A	C	C	A	A	C	C	C	C	C	C	C
Less than 65%, Above 150°F	C	C	A	C	C	A	A	C	C	C	C	C	C	C
65% to Anhydrous, Above 150°F	C	C	-	C	C	A	A	C	C	C	C	C	C	C
Anhydrous	C	C	C	C	C	A	A	C	C	C	C	C	C	C
Hydrofluorosilicic Acid	C	C	A	C	C	A	A	C	C	C	C	C	C	C
Hydrofluosilicic Acid	C	C	A	C	C	A	A	C	C	C	C	C	C	C
Hydrogen	A	A	A	A	A	A	A	A	A	B	A	A	A	A
Hydrogen Bromide	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Hydrogen Fluoride	C	C	C	C	C	A	A	C	C	C	C	C	C	C
Hydrogen Peroxide, 10%	A	A	A	A	A	A	A	B	B	B	B	B	B	B
10-90%	A	A	A	B	B	A	C	B	-	B	B	-	C	B
Hydrogen Sulfide, Dry or Wet	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Hydroquinone	A	A	A	A	A	A	A	C	B	C	C	B	C	C
Iodine Pentafluoride	-	-	-	-	-	-	C	C	C	C	C	C	C	C
Iodomethane	A	A	A	A	A	A	A	C	C	C	C	C	B	-
Isobutane	A	A	A	A	A	A	A	A	C	B	A ¹²	C	B	C
Isooctane	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Isophorone	A	A	A	A	A	A	A	C	C	C	C	C	C	B

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Isopropyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Jet Fuels (JP Types)	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Kerosene	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Lacquer Solvents	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Lacquers	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Lactic Acid, 150°F and below	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Above 150°F	A	A	A	A	A	A	A	-	-	-	-	-	-	-
Lime Saltpeter (Calcium Nitrates)	A	A	A	-	-	A	C	B	B	B	B	B	B	B
Lindane	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Linseed Oil	A	A	A	A	A	A	A	A	B	A	A	B	A	B
Liquified Petroleum Gas (LPG)	A	A	A	A	A	A	A	A	B	C	A ¹²	B	B	C
Lithium Bromide	A	A	A	A	A	A	A	A	-	A	A	-	A	A
Lithium, Elemental	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Lubricating Oils, Mineral or Petroleum Types	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Refined	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Sour	A	A	A	A	A	A	A	B	B	B	B	B	B	C
Lye	C	B	A ⁶	C	A ⁶	A ¹¹	A ⁶	C	C	C	C	C	C	C
Magnesium Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Magnesium Sulfate	A	A	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	B	B	B
Maleic Anhydride	A	A	A	A	A	A	A	C	-	C	C	-	C	C
Mercuric Chloride	A	A	A	C	C	A	A	A	A	A	A	A	B	A
Mercury	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Methane	A	A	A	A	A	A	A	A	B	B	A	C	B	C
Methanol, Methyl Alcohol	A	A	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	C	C
Methylacrylic Acid	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Methyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A
2-Methylaziridine	-	-	A	-	-	A	A	C	C	C	C	C	C	C
Methyl Bromide	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Methyl Chloride	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Methyl Chloroform	A	A	A	A	A	A	A	C	C	C	C	C	C	C
4,4 Methylene Bis(2-chloroaniline)	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Methylene Chloride	A	A	A	A	A	A	A	C	C	C	C	C	C	C
4,4-Methylene Dianiline	A	A	A	A	A	A	A	C	C	C	C	C	C	-
Methylene Diphenyldiisocyanate	A	A	A	-	-	A	A	C	C	C	C	C	C	-
Methyl Ethyl Ketone	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Methyl Hydrazine	A	A	A	A	A	A	A	C	B	C	C	B	B	B
Methyl Iodide	A	A	A	A	A	A	A	C	C	C	C	C	B	-
Methyl Isobutyl Ketone (MIBK)	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Methyl Isocyanate	A	A	A	A	A	A	A	-	C	-	-	C	-	-
Methyl Methacrylate	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	C	C	C	C	C	C	C
N-Methyl-2-Pyrrolidone	A	A	A	A	A	A	A	C	B	C	C	B	-	-
Methyl Tert. Butyl Ether (MTBE)	A	A	A	A	A	A	A	B	C	B	B	B	C	C
Milk ¹⁰	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mineral Oils	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530								
Mobiltherm 600	A	A	A	A	A	A	A	A	C	A	A	C	-	C	
Mobiltherm 603	A	A	A	A	A	A	A	A	C	A	A	C	-	C	
Mobiltherm 605	A	A	A	A	A	A	A	A	C	A	A	C	-	C	
Mobiltherm Light	A	A	A	A	A	A	A	C	C	C	C	C	C	C	
Molten Alkali Metals	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Monomethylamine	A	A	A	A	A	A	A	C	B	C	C	B	A	B	
MultiTherm 100	A	A	A	A	A	A	A	A	C	A	A	C	B	C	
MultiTherm 503	A	A	A	A	A	A	A	A	C	A	A	C	-	C	
MultiTherm IG-2	A	A	A	A	A	A	A	A	C	A	A	C	B	C	
MultiTherm PG-1	A	A	A	A	A	A	A	A	C	A	A	C	B	C	
Muriatic Acid	A	A	A	C	C	A	A	C	C	C	C	C	C	C	
Naphtha	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C	
Naphthalene	A	A	A	A	A	A	A	C	C	C	C	C	C	C	
Naphthols	A	A	A	-	-	A	A	-	-	-	-	-	-	-	
Natural Gas	A	A	A	A	A	A	A	A	B	B	A ¹²	B	B	B	
Nickel Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A	
Nickel Sulfate	A	A	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	C	C	
Above 30%	A	A	A	A	A	A	C	C	C	C	C	C	C	C	
Crude	A	A	A	-	-	A	C	C	C	C	C	C	C	C	
Red Fuming	A	A	A	B	B	A	C	C	C	C	C	C	C	C	
Nitrobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C	
4-Nitrobiphenyl	A	A	A	A	A	A	A	C	C	C	C	C	C	C	
2-Nitro-Butanol	A	A	A	-	-	A	-	C	-	C	C	-	C	-	
Nitrocalcite (Calcium Nitrate)	A	A	A	-	-	A	C	B	B	B	B	B	B	B	
Nitrogen	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Nitrogen Tetroxide	A	A	A	-	-	A	-	C	C	C	C	C	C	C	
Nitrohydrochloric Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C	C	C	
Nitromethane	A	A	A	A	A	A	A	C	-	C	C	-	C	-	
2-Nitro-2-Methyl Propanol	A	A	A	-	-	A	-	C	-	C	C	-	C	-	
Nitromuriatic Acid (Aqua Regia)	A	A	A	B	B	A	C	C	C	C	C	C	C	C	
4-Nitrophenol	A	A	A	-	-	A	A	C	C	C	C	C	C	C	
2-Nitropropane	A	A	A	A	A	A	A	C	-	C	C	-	C	C	
N-Nitrosodimethylamine	A	A	A	A	A	A	A	B	B	B	B	B	-	-	
N-Nitroso-N-Methylurea	A	A	A	-	-	A	A	-	-	-	-	-	-	-	
N-Nitrosomorpholine	A	A	A	A	A	A	A	C	-	C	C	-	C	-	
Norge Niter (Calcium Nitrate)	A	A	A	-	-	A	C	B	B	B	B	B	B	B	
Norwegian Saltpeter (Calcium Nitrate)	A	A	A	-	-	A	C	B	B	B	B	B	B	B	
N-Octadecyl Alcohol	A	A	A	A	A	A	A	A	A	A	A	A	-	A	
Octane	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C	
Oil, Petroleum	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C	
Oils, Animal and Vegetable ¹⁰	A	A	A	A	A	A	A	A	C	A	A	C	B	B	
Oleic Acid	A	A	A	A	A	A	A	B	-	B	B	-	C	C	
Oleum	A	-	C	C	C	A	-	C	C	C	C	C	C	C	
Orthodichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C	
Oxalic Acid	A	A	A	B	B	A	A	C	-	C	C	-	B	B	
Oxygen, Gas	See Note 7							C	C	C	C	C	C	C	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Ozone	A	A	A	A	A	A	C	C	C	C	C	C	C	C
Palmitic Acid	A	A	A	A	A	A	A	A	B	A	A	B	B	A
Paraffin	A	A	A	A	A	A	A	A	B	A	A	B	B	C
Paratherm HE	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Paratherm NF	A	A	A	A	A	A	A	A	C	A	A	C	-	C
Parathion	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Paraxylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Pentachloronitrobenzene	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Pentachlorophenol	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Pentane	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Perchloric Acid	A	A	A	C	C	A	C	C	C	C	C	C	C	C
Perchloroethylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Petroleum Oils, Crude	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Refined	A	A	A	A	A	A	A	A	B	A	A ¹²	B	B	C
Phenol	A	A	A	A	A	A	A	C	C	C	C	C	C	B
p-Phenylenediamine	A	A	A	A	A	A	A	C	C	C	C	C	-	-
Phosgene	A	A	A	B	B	A	A	C	-	C	C	-	-	B
Phosphate Esters	A	A	A	A	A	A	A	C	C	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	C	C
Pure, Less than 45%	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Pure, Above 45%, 150°F and below	B	B	A	B	B	A	A	C	C	C	C	C	C	C
Pure, Above 45%, Above 150°F	C	B	A	C	B	A	A	C	C	C	C	C	-	-
Phosphorus, Elemental	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Phosphorus Pentachloride	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Phthalic Acid	A	A	A	A	A	A	A	C	-	C	C	-	B	-
Phthalic Anhydride	A	A	A	A	A	A	A	C	-	C	C	-	C	B
Picric Acid, Molten	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Solution	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Pinene	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Piperidine	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Polyacrylonitrile	A	A	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	C	C
Potash, Potassium Carbonate	A	A	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	A	A
Potassium Bichromate	A	A	A	A	A	A	C	A	B	A	A	B	B	A
Potassium Chromate, Red	A	A	A	A	A	A	C	A	B	A	A	B	B	A
Potassium Cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium Dichromate	A	A	A	A	A	A	C	A	B	A	A	B	B	A
Potassium, Elemental	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Potassium Hydroxide	C	B	A ⁶	C	A ⁶	A ¹¹	A ⁶	C	C	C	C	C	C	C
Potassium Nitrate	A	A	A	A	A	A	-	B	B	B	B	B	B	B
Potassium Permanganate	A	A	A	A	A	A	-	B	-	B	B	-	B	B
Potassium Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Producer Gas	A	A	A	A	A	A	A	A	C	B	A ¹²	C	B	C
Propane	A	A	A	A	A	A	A	A	C	B	A ¹²	C	B	C
1,3-Propane Sultone	A	A	A	-	-	A	A	-	-	-	-	-	-	-

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Beta-Propiolactone	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Propionaldehyde	A	A	A	A	A	A	A	C	C	C	C	C	–	–
Propoxur (Baygon)	A	A	A	A	A	A	A	C	C	C	C	C	–	–
Propyl Alcohol	A	A	A	A	A	A	A	A	A	A	A ¹²	A ¹²	A ¹²	A ¹²
Propyl Nitrate	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Propylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Propylene Dichloride	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Propylene Glycol	A	A	A	A	A	A	A	A	A	A	A	A	–	A
Propylene Oxide	A	A	A	A	A	A	A	C	C	C	C	C	C	B
1,2-Propylenimine	–	–	A	–	–	A	A	C	C	C	C	C	C	C
Prussic Acid, Hydrocyanic Acid	A	A	A	A	A	A	A	A	B	A	A	B	B	A
Pyridine	A	A	A	B	B	A	A	C	C	C	C	C	C	B
Quinoline	A	A	A	B	B	A	A	C	C	C	C	C	C	C
Quinone	A	A	A	A	A	A	–	–	–	–	–	–	–	–
Refrigerants	See Specific Ratings Below													
10	A	A	A	B	B	A	A	C	C	C	C	C	C	C
11	A	A	A	A	A	A	A	A	C	B	A	C	C	C
12	A	A	A	A	A	A	A	A	A	B	A	A	A	A
13	A	A	A	A	A	A	A	A	A	B	A	A	A	A
13B1	A	A	A	A	A	A	A	A	A	B	A	A	A	A
21	A	A	A	A	A	A	A	C	C	C	C	C	A	C
22	A	A	A	A	A	A	A	B	B	B	B	B	A	A
23	A	A	A	A	A	A	A	C	A	C	C	A	A	A
31	A	A	A	A	A	A	A	C	A	C	C	A	A	A
32	A	A	A	A	A	A	A	A	A	B	A	A	A	A
112	A	A	A	A	A	A	A	A	C	B	A	C	A	C
113	A	A	A	A	A	A	A	A	A	B	A	A	A	C
114	A	A	A	A	A	A	A	A	A	B	A	A	A	A
114B2	A	A	A	A	A	A	A	A	C	B	A	C	A	C
115	A	A	A	A	A	A	A	A	A	B	A	A	A	A
123	A	A	A	A	A	A	A	C ³	C	C ³	C ³	C	A ³	C
124	A	A	A	A	A	A	A	C	A	C	C	A	A	A
125	A	A	A	A	A	A	A	–	A	–	–	A	A	A
134a	A	A	A	A	A	A	A	B	A	B	B	A	A	A
141b	A	A	A	A	A	A	A	A	–	B	A	–	A	–
142b	A	A	A	A	A	A	A	A	A	B	A	A	A	A
143a	A	A	A	A	A	A	A	–	A	–	–	A	A	A
152a	A	A	A	A	A	A	A	A	A	B	A	A	A	A
218	A	A	A	A	A	A	A	A	A	B	A	A	A	A
290 (Propane)	A	A	A	A	A	A	A	A	C	B	A ¹²	C	B	C
500	A	A	A	A	A	A	A	A	–	B	A	–	A	–
502	A	A	A	A	A	A	A	A	A	B	A	A	A	–
503	A	A	A	A	A	A	A	C	A	C	C	A	A	A
507	A	A	A	A	A	A	A	B	–	C	B	–	A	A
717 (Ammonia)	A	A	A	A	A	A	A	B	B	C	B	B	B	B
744 (Carbon Dioxide)	A	A	A	A	A	A	A	A	A	A	A	A	A	A
C316	A	A	A	A	A	A	A	A	A	B	A	A	A	A

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
C318	A	A	A	A	A	A	A	A	A	B	A	A	A	A
HP62	A	A	A	A	A	A	A	A	-	B	A	-	A	-
HP80	A	A	A	A	A	A	A	-	-	-	-	-	A	-
HP81	A	A	A	A	A	A	A	-	-	-	-	-	A	-
Salt Water	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Saltpeter, Potassium Nitrate	A	A	A	A	A	A	-	B	B	B	B	B	B	B
2,4-D Salts and Esters	A	A	A	-	-	A	A	C	C	C	C	C	C	C
Sewage	A	A	A	A	A	A	A	A	B	A	A	B	B	B
Silver Nitrate	A	A	A	A	A	A	-	B	A	B	B	A	A	A
Skydrols	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Soap Solutions	A	A	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	A	A
Sodium Bicarbonate, Baking Soda	A	A	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	A	A
Sodium Bisulfite	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Sodium Chlorate	A	A	A	A	A	A	A	C	-	C	C	-	C	C
Sodium Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Sodium Cyanide	C	C	A	C	C	A	A	C	C	C	C	C	C	C
Sodium, Elemental	C	C	C	C	C	C	C	C	C	C	C	C	C	C
Sodium Hydroxide	C	B	A ⁶	C	A ⁶	A ¹¹	A ⁶	C	C	C	C	C	C	C
Sodium Hypochlorite	A	A	A	B	B	A	-	C	-	C	C	-	C	C
Sodium Metaborate Peroxyhydrate	A	A	A	B	B	A	C	B	B	B	B	B	B	B
Sodium Metaphosphate	B	A	A	B	A	A	A	A	A	A	A	A	A	A
Sodium Nitrate	A	A	A	A	A	A	-	B	B	B	B	B	B	B
Sodium Perborate	A	A	A	B	B	A	C	B	B	B	B	B	B	B
Sodium Peroxide	A	A	A	A	A	A	C	C	C	C	C	C	C	C
Sodium Phosphate, Monobasic	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Dibasic	B	B	A	B	A	A	A	B	B	B	B	B	B	B
Tribasic	C	B	A	C	A	A	A	B	B	B	B	B	B	B
Sodium Silicate	B	B	A	B	A	A	A	B	B	B	B	B	B	B ⁴
Sodium Sulfate	A	A	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	A	A
Sodium Superoxide	A	A	A	A	A	A	C	C	C	C	C	C	C	C
Sodium Thiosulfate, "Hypo"	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Soybean Oil ¹⁰	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Stannic Chloride	A	A	A	C	C	A	A	B	B	B	B	B	-	B
Steam, Saturated, to 150 psig ¹³	A	A	A	A	A	A	A	A ¹³	A ¹³	A ¹³	B ⁹	B ⁹	B ⁹	B ⁹
Superheated	-	-	-	-	-	-	-	C	C	A	C	C	C	C
Stearic Acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Stoddard Solvent	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Styrene	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	C	C	C	C	C	C	C
Styrene Oxide	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Sulfur Chloride	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Sulfur Dioxide	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Sulfur, Molten	A	A	A	A	A	A	A	C	C	C	C	C	B	C
Sulfur Trioxide, Dry	A	A	A	A	A	A	-	C	C	C	C	C	C	C
Wet	A	A	A	B	B	A	B	C	C	C	C	C	C	C

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Sulfuric Acid, 10%, 150°F and below	A	A	A	B	B	A	–	C	C	C	C	C	C	C
10%, Above 150°F	A	A	A	C	C	A	–	–	C	–	–	C	C	C
10-75%, 500°F and below	A	A	A	C	C	A	–	–	C	–	–	C	C	C
75-98%, 150°F and below	A	A	B	C	C	A	C	C	C	C	C	C	C	C
75-98%, 150°F to 500°F	A	B	B	C	C	A	C	C	C	C	C	C	C	C
Sulfuric Acid, Fuming	A	–	C	C	C	A	C	C	C	C	C	C	C	C
Sulfurous Acid	A	A	A	B	B	A	–	B	B	B	B	B	–	–
Syltherm 800	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Syltherm XLT	A	A	A	A	A	A	A	B	B	B	B	B	B	B
Tannic Acid	A	A	A	– ⁸	– ⁸	A	A	A	A	A	A	A	A	A
Tar	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Tartaric Acid	A	A	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	C	C
Tertiary Butyl Amine	A	A	A	A	A	A	A	B	–	B	B	–	C	B
Tetrabromoethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Tetrachlorethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Tetrachloroethylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Tetrahydrofuran, THF	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol 44	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol 55	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol 59	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol 60	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol 66	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol 75	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol D12	A	A	A	A	A	A	A	B	C	B	B	C	B	C
Therminol LT	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol VP-1	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Therminol XP	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Thionyl Chloride	A	A	A	C	C	A	A	C	C	C	C	C	C	C
Titanium Sulfate	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Titanium Tetrachloride	A	A	A	C	C	A	A	B	C	B	C	C	C	C
Toluene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
2,4-Toluenediamine	A	A	A	A	A	A	A	–	C	–	–	C	C	C
2,4-Toluenediisocyanate	A	A	A	–	–	A	A	C	C	C	C	C	C	B
Toluene Sulfonic Acid	A	A	A	–	–	A	A	C	C	C	C	C	C	C
o-Toluidine	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Toxaphine	A	A	A	–	–	A	A	C	C	C	C	C	C	C
Transformer Oil (Mineral Type)	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Transmission Fluid A	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Trichloroacetic Acid	A	A	A	C	C	A	A	C	C	C	C	C	C	C
1,2,4- Trichlorobenzene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
1,1,2-Trichloroethane	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Trichloroethylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
2,4,5-Trichlorophenol	A	A	A	–	–	A	A	C	C	C	C	C	C	C
2,4,6-Trichlorophenol	A	A	A	–	–	A	A	C	C	C	C	C	C	C
Tricresylphosphate	A	A	A	A	A	A	A	C	C	C	C	C	C	B
Triethanolamine	A	A	A	–	–	A	A	B	B	B	B	B	B	B

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	3500	3504 3565 3594	3510 3591	3560	3561	3535 3540 3545	3530							
Triethyl Aluminum	A	A	A	–	–	A	A	C	–	C	C	–	C	–
Triethylamine	A	A	A	A	A	A	A	B	B	B	B	B	B	A
Trifluralin	A	A	A	A	A	A	A	C	C	C	C	C	C	C
2,2,4-Trimethylpentane	A	A	A	A	A	A	A	A	C	A	A ¹²	C	B	C
Tung Oil	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Turpentine	A	A	A	A	A	A	A	A	C	A	A ¹²	C	C	C
UCON Heat Transfer Fluid 500	A	A	A	A	A	A	A	A	B	A	A	B	B	B
UCON Process Fluid WS	A	A	A	A	A	A	A	A	B	A	A	B	B	B
Urea, 150°F and below	A	A	A	A	A	A	A	B	–	–	B	–	A	A
Above 150°F	A	A	A	A	A	A	A	–	–	–	–	–	–	–
Varnish	A	A	A	A	A	A	A	B	C	B	B	C	C	C
Vegetable Oil ¹⁰	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Vinegar ¹⁰	A	A	A	A	A	A	A	B	B	B	B	B	A	A
Vinyl Acetate	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	B ¹	C	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	C	C
Vinyl Chloride	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	A ¹	C	C	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	C	C
Vinyl Methacrylate	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Water, Acid Mine, with Oxidizing Salt	A	A	A	C	C	A	–	B	–	B	B	–	B	–
No Oxidizing Salts	A	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	A	A
Return Condensate	A	A	A	A	A	A	A	A	A	A	A	–	–	A
Seawater	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Tap	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Whiskey and Wines ¹⁰	A	A	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	A	A
Xceltherm 550	A	A	A	A	A	A	A	B	C	B	B	C	B	C
Xceltherm 600	A	A	A	A	A	A	A	A	C	A	A	C	B	C
Xceltherm MK1	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Xceltyherm XT	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Xylene	A	A	A	A	A	A	A	C	C	C	C	C	C	C
Zinc Chloride	A	A	A	B	B	A	A	A	A	A	A	A	A	A
Zinc Sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Key: A = Suitable; B = Depends on operating conditions; C = Unsuitable; – = No data or insufficient evidence

NOTES:

- Consult the factory regarding your specific applications. See "Monomers" in Gasketing catalog Terms section.
- IFG® Style 5507 is rated "B".
- There have been conflicting field reports concerning the suitability of NBR and neoprene bound gaskets in 123. End users should take note.
- IFG® Style 5507 is rated "A".
- 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.
- These GYLON® styles can be expected to be suitable to 45-59% concentration at temperatures up to 250°F (121°C).
- Use GYLON® styles 3502, 3503, 3505, 3562, 3563. These styles are specially processed, cleaned and packaged for oxygen service.
- 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.
- These styles are not preferred choices for steam service, but are successful when adequately compressed.
- If a gasketing material that conforms to FDA requirements is desired, contact factory for specific recommendations.
- These GYLON® gasket styles can be expected to be suitable to 75% concentration at temperatures up to 400°F (204°C).
- Not a fire-tested material.
- Minimum recommended assembly stress = 4,800 psi. Preferred assembly stress = 6,000-10,000 psi. Gasket thickness of 1/16" strongly preferred. For saturated steam above 150 psig, consult Garlock Engineering.
- Styles 2900, 2910 and 2950 exhibit identical chemical resistance properties.

Call Gasket Applications Engineering at 1-800-448-6688 for specific recommendations.

AUTHORIZED REPRESENTATIVE



ISO 9001:2000
Cert. #001762

WARNING:

Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. Specifications subject to change without notice. This edition cancels all previous issues. Subject to change without notice.

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Garlock

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