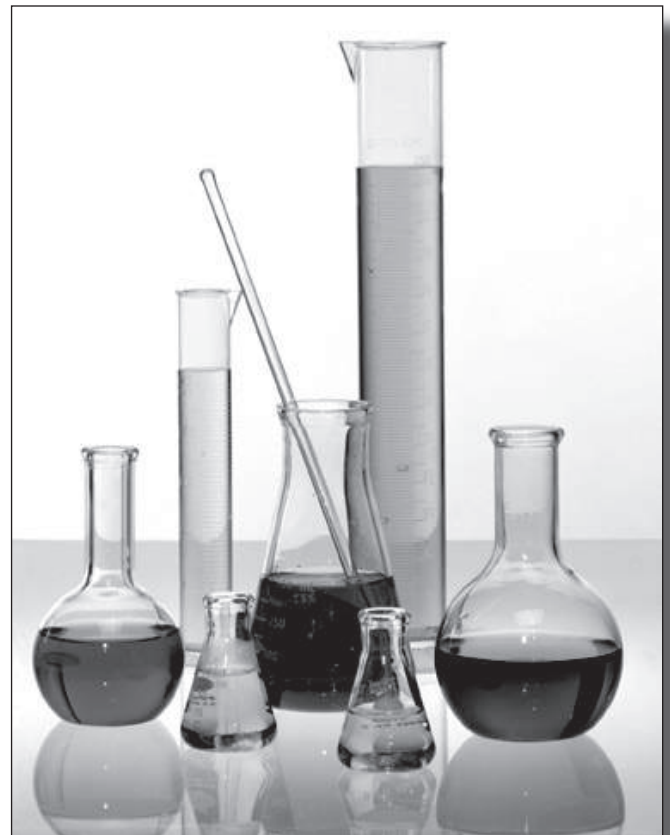


# Garlock

# Chemical Resistance Manual

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- 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 <sup>14</sup> 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 <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>
Acetic Anhydride	A	A	A	A	A	A	A	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>
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 <sup>12</sup>	B	A	B
Acrolein	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	B <sup>1</sup>	C	B <sup>1</sup>	B <sup>1</sup>	C	B <sup>1</sup>	B <sup>1</sup>
Acrylamide	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	C	C	C	C	C	C	C
Acrylic Acid	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	C	C	C	C	C	C	B <sup>1</sup>
Acrylic Anhydride	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	-	-	-	-	-	-	-
Acrylonitrile	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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

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

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# Chemical Resistance of Garlock Compressed Sheet and GYLON®

Medium	Garlock Style Number													
	GYLON®							IFG 5500 G-9900 9850	9800	ST-706	2900 <sup>14</sup> 3000 3001	2920 3200 3400	2930 3300 3800	IFG 5507 3700
	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 <sup>10</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	C	C	C	C	C	-	C
Butane	A	A	A	A	A	A	A	A	C	B	A <sup>12</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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 <sup>2</sup>

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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 <sup>6</sup>	C	A <sup>6</sup>	A <sup>11</sup>	A <sup>6</sup>	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	— <sup>5</sup>	— <sup>5</sup>	A	— <sup>5</sup>	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 <sup>10</sup>	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Cotton Seed Oil <sup>10</sup>	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 <sup>12</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	C	C	C	C	C	C	B <sup>1</sup>
Ethyl Alcohol <sup>10</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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 <sup>4</sup>
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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	B <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	B <sup>1</sup>	B <sup>1</sup>	A <sup>1</sup>
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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>12</sup>	C	B	C
Sour	A	A	A	A	A	A	A	A	C	A	A <sup>12</sup>	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 <sup>10</sup>	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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>12</sup>	C	B	C
Isooctane	A	A	A	A	A	A	A	A	C	A	A <sup>12</sup>	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 <sup>12</sup>	C	B	C
Kerosene	A	A	A	A	A	A	A	A	C	A	A <sup>12</sup>	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 <sup>12</sup>	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 <sup>12</sup>	B	B	C
Refined	A	A	A	A	A	A	A	A	B	A	A <sup>12</sup>	B	B	C
Sour	A	A	A	A	A	A	A	B	B	B	B	B	B	C
Lye	C	B	A <sup>6</sup>	C	A <sup>6</sup>	A <sup>11</sup>	A <sup>6</sup>	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 <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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 <sup>10</sup>	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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>12</sup>	C	B	C	
Oil, Petroleum	A	A	A	A	A	A	A	A	B	A	A <sup>12</sup>	B	B	C	
Oils, Animal and Vegetable <sup>10</sup>	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 <sup>12</sup>	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 <sup>12</sup>	B	B	C
Refined	A	A	A	A	A	A	A	A	B	A	A <sup>12</sup>	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 <sup>6</sup>	C	A <sup>6</sup>	A <sup>11</sup>	A <sup>6</sup>	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 <sup>12</sup>	C	B	C
Propane	A	A	A	A	A	A	A	A	C	B	A <sup>12</sup>	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 <sup>12</sup>	A <sup>12</sup>	A <sup>12</sup>	A <sup>12</sup>
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 <sup>3</sup>	C	C <sup>3</sup>	C <sup>3</sup>	C	A <sup>3</sup>	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 <sup>12</sup>	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 <sup>6</sup>	C	A <sup>6</sup>	A <sup>11</sup>	A <sup>6</sup>	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 <sup>4</sup>
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 <sup>10</sup>	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 <sup>13</sup>	A	A	A	A	A	A	A	A <sup>13</sup>	A <sup>13</sup>	A <sup>13</sup>	B <sup>9</sup>	B <sup>9</sup>	B <sup>9</sup>	B <sup>9</sup>
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 <sup>12</sup>	C	B	C
Styrene	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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	– <sup>8</sup>	– <sup>8</sup>	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
Toxaphene	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

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

**WARNING:**

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# Chemical Resistance of Garlock Compressed Sheet and GYLON®

Medium	Garlock Style Number													
	GYLON®							IFG 5500 G-9900 9850	9800	ST-706	2900 <sup>14</sup> 3000 3001 CP-3900	2920 3200 3400 CP-3920	2930 3300 3800	IFG 5507 3700
	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 <sup>12</sup>	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 <sup>12</sup>	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 <sup>10</sup>	A	A	A	A	A	A	A	A	C	A	A	C	B	B
Vinegar <sup>10</sup>	A	A	A	A	A	A	A	B	B	B	B	B	A	A
Vinyl Acetate	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	B <sup>1</sup>	C	B <sup>1</sup>	B <sup>1</sup>	C	B <sup>1</sup>	B <sup>1</sup>
Vinyl Bromide	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	C	C	C	C	C	C	C
Vinyl Chloride	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	C	C	C	C	C	C	C
Vinylidene Chloride	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	A <sup>1</sup>	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 <sup>10</sup>	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

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ISO 9001:2000  
Cert. #001762

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# Garlock

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