

SANITARY GASKET MATERIAL SELECTION GUIDE

A = Satisfactory

B = Fair

C = Severe Effect, except for some static applications

D = Unsatisfactory

E = Insufficient Information

Material	Buna-N	EPDM	Viton®	Silicone
Acetaldehyde	D	A	D	B
Acetamide	A	A	B	B
Acetic Acid, 30%	B	A	B	A
Acetone	D	A	D	C
Acetophenone	D	A	D	D
Acetyl Chloride	D	D	A	C
Acetylene	A	A	A	B
Acrylonitrile	D	D	C	D
Adipic Acid	A	A	E	E
Ammonia Gas (cold)	A	A	D	A
Ammonium Chloride (aq)	A	A	A	E
Ammonium Hydroxide (conc.)	D	A	B	A
Ammonium Hydroxide (conc.)	A	A	E	E
Ammonium Nitrite (aq)	A	A	E	B
Ammonium Phosphate (aq)	A	A	E	A
Ammonium Sulfate (aq)	A	A	D	E
Amyl Acetate (Banana Oil)	D	A	D	D
Amyl Alcohol	B	A	B	D
Amyl Bortate	A	D	A	E
Arsenic Acid	A	A	A	A
Arsenic Trichloride (aq)	A	C	E	E
Barium Chloride (aq)	A	A	A	A
Barium Hydroxide (aq)	A	A	A	A
Barium Sulfate (aq)	A	A	A	A
Barium Sulfide (aq)	A	A	A	A
Barium Sulfide (aq)	D	A	D	B
Benzene	D	D	A	D
Benzonic Acid	C	C	A	C
Benzoyl Chloride	D	D	A	E
Benzyl Alcohol	D	A	A	B
Benzyl Chloride	D	D	A	D
Boric Acid	A	A	A	A
Brine	A	A	A	A
Bromine, Anhydrous	D	D	A	D

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Bromin Water	D	B	A	D
Butadiene	D	C	A	D
Butane	A	D	A	D
Butyl Acetate	D	C	D	D
Butyl Acetyl Ricinoleate	C	A	A	E
Butyl Alcohol	A	B	A	B
Butyl Amine	C	B	D	D
Butyl Benzoate	D	B	A	E
Butyl Carbitol	D	A	A	D
Butyl Cellosolve	D	A	D	E
Butyle Oleate	D	B	A	E
Butyl Stearate	B	C	A	E
Butylene	B	D	A	D
Butyraldehyde	D	B	D	D
Carbolic Acid (Phenoi)	D	B	A	D
Carbon Bisulfide	C	D	A	D
Carbon Dioxide	A	B	A	B
Carbonic Acid	B	A	A	A
Carbon Monoxide	A	A	A	A
Carbon Tetrachloride	C	D	A	D
Castor Oil	A	B	A	A
Cellosolve Acetate	D	B	D	D
China Wood Oil (Tung Oil)	A	C	A	D
Chlorine (wet)	D	C	A	D
Chlorine Dioxide	D	C	A	E
Chloroacetic Acid	D	A	D	E
Chloroacetone	D	A	D	D
Chlorobenzene	D	D	A	D
Chlorobromomethane	D	B	A	D
Chloroform	D	D	A	D
Chlorololuene	D	D	A	D
Chrome Plating Solutions	D	C	A	C
Chromic Acid	D	B	A	B
Cod Liver Oil	A	A	A	B
Copper Acetate (aq)	B	A	D	D
Cooper Chloride (aq)	A	A	A	A
Copper Cyanide (aq)	A	A	A	A
Cooper Sulfate (aq)	A	A	A	A
Creosotecol	A	D	A	D
Cresylic Acid	D	D	A	D
Cyclohexane	A	D	A	D
Cyclohexanool	C	C	A	D
Cyclohexanone	D	B	D	D
Denatured Alcohol	A	A	A	A
Detergent Solutions	A	A	A	A
Diacetone Alcohol	D	A	D	B
Dibenzyl Ether	D	B	D	E

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Dibenzyl Sebecate	D	B	B	C
Dibromoethyl Benzene (Alkazene)	D	D	B	D
Dibutyle Amine	D	C	D	C
Dibutyl Ether	D	C	C	D
Dibutyl Phthalate	D	B	C	B
Dibutyl Sebecate	D	B	B	B
O-Dichlorobenzene	D	D	A	D
Dichloro-Isopropyl Ether	D	C	C	D
Diethylamine	B	B	D	B
Diethyl Benzene	D	D	A	D
Diethyl Ether	D	D	D	D
Diethylene Glycol	A	A	A	B
Diethyl Sebecate	B	B	B	B
Diisobutylene	B	D	A	D
Diisopropyl Benzene	D	D	A	E
Diisopropyl Ketone	D	A	D	D
Diisopropylidene Acetone	D	C	D	D
Dimethyl Aniline (Xylidine)	C	B	D	D
Dimethyl Ether (Methyl Ether)	A	D	A	A
Dimethyl Formamide	B	B	D	B
Dimethyl Phthalate	D	B	B	E
Dinitroluene	D	D	D	D
Diocetyl Phthalate	C	B	B	C
Diocetyl Sebecate	D	B	B	C
Dioxane	D	B	D	D
Dioxolane	D	B	D	D
Dipentene	A	D	A	D
Diphenyl (Phenylbenzene)	D	D	A	D
Diphenyl Oxides	D	D	A	C
Dowtherm Oil	D	D	A	C
Ethane	A	D	A	D
Ethanolamine	B	B	D	B
Ethyl Acetate	D	B	D	B
Ethyl Acetoacetate	D	B	D	B
Ethyl Acrylate	D	B	D	B
Ethyl Alcohol	A	A	C	A
Ethyl Benzene	D	D	A	D
Ethyl Benzoate	D	A	A	D
Ethyl Cellosolve	D	B	D	D
Ethyl Cellulose	B	B	D	C
Ethyl Chloride	A	C	A	D
Ethyl Chlorocarbonate	D	B	A	D
Ethyl Chloroformate	D	B	D	D
Ethyl Ether	C	C	D	D
Ethyl Pentachlorobenzene	D	D	A	D
Ethylene	A	B	A	E
Ethylene Chloride	D	C	B	D

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Ethylene Diamine	A	A	D	A
Ethylene Dichloride	D	C	A	D
Ethylene Glycol	A	A	A	A
Fluoroboric Acid	A	A	E	E
Freon 11	B	D	A	D
Freon 12	A	B	B	D
Freon 22	D	A	D	D
Fumaric Acid	A	B	A	B
Gallic Acid	B	B	A	E
Gasoline	B	D	A	D
Glucose	A	A	A	A
Glycerin	A	A	A	A
Hexane	A	D	A	D
Hexyl Alcohol	A	C	A	B
Hydrazine	B	A	D	C
Hydrobromic Acid	D	A	A	D
Hydrocyanic Acid	B	A	A	C
Hydrofluoric Acid (conc.) cold	D	C	A	D
Hydrfluosilicic Acid	B	B	A	D
Hydrogen Gas	A	A	A	C
Hydrogen Peroxide (90%)	D	B	B	B
Hydrogen Sulfide (wet) cold	D	A	D	C
Hydroquinone	C	B	B	E
Iodoform	E	D	E	E
Isobutyl Alcohol	B	A	A	A
Isoctane	A	D	A	D
Isopropyl Acetate	D	B	D	D
Isopropyl Alcohol	B	A	A	A
Isopropyl Chloride	D	D	A	D
Isopropyl Ether	B	D	D	D
Kerosene	A	D	A	D
Lacquers	D	D	D	D
Lactic Acid (cold)	A	A	A	A
Lead Acetate (aq)	B	A	D	D
Lead Nitrite (aq)	A	A	E	B
Lime Bleach	A	A	A	B
Linoleic Acid	B	D	B	B
Maleic Acid	D	B	A	E
Malic Acid	A	B	A	B
Methane	A	D	B	D
Methyl Acetate	D	A	D	D
Methyl Acrylate	D	B	D	D
Methylacrylic Acid	D	B	D	D
Methyl Alcohol	A	A	D	A
Methyl Bromide	B	D	A	E
Methyl Butyl Ketone	D	A	D	C
Methyl Cellosolve	C	B	D	D

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Methyl Chloride	D	C	B	D
Methyl Cyclopentane	D	D	B	D
Methylene Chloride	D	C	B	D
Methyl Ether	A	D	A	A
Methyl Ethyl Ketone	D	A	D	D
Methyl Isobutyl Ketone	D	B	D	D
Methyl Methacrylate	D	C	D	D
Milk	A	A	A	A
Mineral Oil	A	C	A	B
Monoethanol Amine	D	A	D	B
Monomethyl Ether	A	D	A	A
Monovinyl Acetylene	A	A	A	B
Mustard Gas	E	A	E	A
Naphthalenic Acid	B	D	A	D
Natural Gas	A	D	A	A
Nickel Acetate (aq)	B	A	D	D
Nickel Chloride (aq)	A	A	A	A
Nickel Sulfate (aq)	A	A	A	A
Nitric Acid (dilute)	D	B	A	B
Nitrobenzene (Ligroin)	A	D	A	D
Nitroethane	D	B	D	D
Nitrogen Tetroxide	D	C	D	D
Octachloroluene	D	D	A	D
Octadecane	A	D	A	D
N-Octane	B	D	A	D
Octyl Alcohol	B	C	A	B
Oleic Acid	C	D	B	D
Oxalic Acid	B	A	A	B
Oxygen - Cold	B	A	A	A
Ozone	D	A	A	A
Palmitic Acid	A	B	A	D
Perchloric Acid	D	B	A	D
Phenyl Ethyl Ether	D	D	D	D
Phosphoric Acid - 20%	B	A	A	B
Phosphorus Trichloride	D	A	A	E
Piperidine	D	A	D	D
Polyvinyl Acetate Emulsion	E	A	E	E
Potassium Acetate (aq)	B	A	D	D
Potassium Chloride (aq)	A	A	A	A
Potassium Cyanide (aq)	A	A	A	A
Potassium Nitrate (aq)	A	A	A	A
i-Propyl Acetate	D	B	D	D
Propyl Nitrate	D	B	D	D
Propylene	D	D	A	D
Pyride	D	B	D	D
Salicylic Acid	B	A	A	E
Silicone Oils	A	A	A	C

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Material	Buna-N	EPDM	Viton®	Silicone
Soap Solutions	A	A	A	A
Sodium Acetate (aq)	B	A	D	D
Sodium Bicarbonate (aq) (Baking Soda)	A	A	A	A
Sodium Borate (aq)	A	A	A	A
Sodium Chloride (aq)	A	A	A	A
Sodium Chloride (aq)	A	A	A	A
Sodium Hydroxide (aq)	B	A	B	B
Sodium Nitrate (aq)	B	A	E	D
Sodium Peroxide (aq)	B	A	A	D
Soybean Oil	A	C	A	A
Steam, under 300 °F	D	A	D	C
Stearic Acid	B	B	E	B
Stoddard Solvent	A	D	A	D
Sulfur Chloride (aq)	C	D	A	C
Sulfuric Acid (dilute)	C	B	A	D
Sulfurous Acid	B	B	A	D
Tannic Acid	A	A	A	B
Tartaric Acid	A	B	A	A
Tetrachloroethylene	D	D	A	D
Toluene	D	D	A	D
Triethanol Amine	B	A	D	E
Trioctyle Phosphate	D	A	B	C
Tung Oil (China Wood Oil)	A	C	A	D
Turpentine	A	D	A	D
Vegetable Oils	A	C	A	B
Vinegar	B	A	A	A
Whiskey, Wines	A	A	A	A
White Pine Oil	B	D	A	D
Zinc Chloride (aq)	A	A	A	A

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