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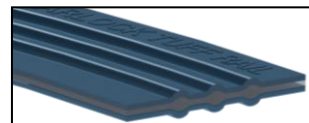
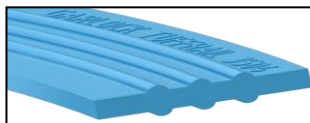
Garlock TUFF-RAIL™ Manway Gasket

Chemical Resistance Guide

A general guide for selection of gasketing material, Rev. August 2019

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.



Media	3504 TUFF-RAIL™ Gasket	3545 TUFF-RAIL™ Gasket
Abietic Acid	A	A
Acetaldehyde	A	A
Acetamide	A	A
Acetic Acid (Crude, Glacial, Pure)	A ¹	A ¹
Acetic Anhydride	A ¹	A ¹
Acetone	A	A
Acetonitrile	A	A
Acetophenone	A	A
2-Acetylaminofluorene	A	A
Acrolein	A ¹	A ¹
Acrylamide	A ¹	A ¹
Acrylic Acid	A ¹	A ¹
Acrylic Anhydride	A ¹	A ¹
Acrylonitrile	A ¹	A ¹
Allyl Acetate	A	A
Allyl Chloride	A	A
Allyl Methacrylate	A ¹	A ¹
Aluminum Chloride	A	A
Aluminum Fluoride	–	A
Aluminum Hydroxide (Solid)	A	A
Aluminum Nitrate	A	A
Aluminum Sulfate	A	A
Alums	A	A
4-Aminodiphenyl	A	A
Ammonia Liquid, Anhydrous	A	A
Ammonium Chloride	A	A
Ammonium Hydroxide	A	A
Ammonium Nitrate	A	A
Ammonium Phosphate, Monobasic	A	A
Ammonium Phosphate, Dibasic	A	A
Ammonium Phosphate, Tribasic	A	A
Ammonium Sulfate	A	A
Amyl Acetate	A	A
Amyl Alcohol	A	A
Aniline, Aniline Oil	A	A
Aniline Dyes	A	A
o-Anisidine	A	A

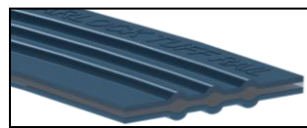
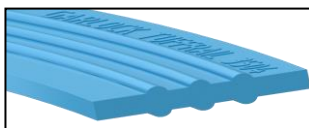
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Media	3504 TUFF-RAIL™ Gasket	3545 TUFF-RAIL™ Gasket
Aqua Regia	A	A
Aroclors	A	A
Asphalt	A	A
Aviation Gasoline	A	A
Barium Chloride	A	A
Barium Hydroxide	A	A
Barium Sulfide	A	A
Baygon	A	A
Beer	A	A
Benzaldehyde	A	A
Benzene, Benzol	A	A
Benzidine	A	A
Benzoic Acid	A	A
Benzonitrile	A	A
Benzotrithloride	A	A
Benzoyl Chloride	A	A
Benzyl Alcohol	A	A
Benzyl Chloride	A	A
Bio-diesel (B100)	A	A
Biphenyl	A	A
Bis(2-chloroethyl)ether	A	A
Bis(chloromethyl)ether	A	A
Bis(2-ethylhexyl)phthalate	A	A
Bitumen	A	A
Black Sulfate Liquor	B	A
Bleach (Sodium Hypochlorite)	A	A
Borax	A	A
Brake Fluid (Mineral Oil)	A	A
Brake Fluid (Glycol Ether)	A	A
Boric Acid	A	A
Brine (Sodium Chloride)	A	A
Bromine	A	A
Bromine Trifluoride	C	C
Bromoform	A	A
Bromomethane	A	A
Butadiene	A ¹	A ¹
2-Butanone	A	A
Butyl Acetate	A	A
Butyl Alcohol, Butanol	A	A
n-Butyl Amine	A	A
tert-Butyl Amine	A	A
Butyl Methacrylate	A ¹	A ¹
Butyric Acid	A	A
Calcium Bisulfite	A	A
Calcium Chloride	A	A
Calcium Cyanamide	A	A
Calcium Hydroxide	A	A
Calcium Hypochlorite	A	A
Calcium Nitrate	A	A
Calflo AF	A	A
Calflo FG	A	A

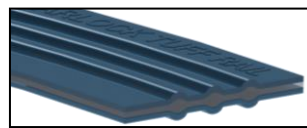
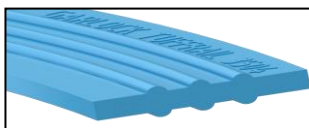
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Calflo HTF	A	A
Calflo LT	A	A
Cane Sugar Liquors	A	A
Caprolactam	A	A
Captan	A	A
Carbaryl	A	A
Carbolic Acid, Phenol	A	A
Carbon Dioxide, Wet	A	A
Carbon Disulfide	A	A
Carbon Tetrachloride	A	A
Carbonic Acid	A	A
Carbonyl Sulfide	A	A
Castor Oil	A	A
Catechol	A	A
Caustic Soda (<150°F)	A	A ²
Cetane (Hexadecane)	A	A
China Wood Oil	A	A
Chloramben	A	A
Chlorazotic Acid (Aqua Regia)	A	A
Chlordane	A	A
Chlorinated Solvents, Dry	A	A
Chlorinated Solvents, Wet	A	A
Chlorine Dioxide	A	A
Chloroacetic Acid	A	A
2-Chloroacetophenone	A	A
Chloroazotic Acid (Aqua Regia)	A	A
Chlorobenzene	A	A
Chlorobenzilate	A	A
Chloroethane	A	A
Chloroethylene	A	A
Chloroform	A	A
Chloromethyl Methyl Ether	A	A
Chloronitrous Acid (Aqua Regia)	A	A
Chloroprene	A	A
Chlorosulfonic Acid	A	A
Chrome Plating Solutions	—	A
Chromic Acid	A	A
Chromic Anhydride	A	A
Chromium Trioxide	A	A
Citric Acid	A	A
Copper Chloride	A	A
Copper Sulfate	A	A
Corn Oil	A	A
Cotton Seed Oil	A	A
Creosote	A	A
Cresols, Cresylic Acid	A	A
Crotonic Acid	A	A
Crude Oil	A	A
Crude oil, sour	A	A
Cumene	A	A
Cyclohexane	A	A

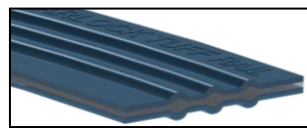
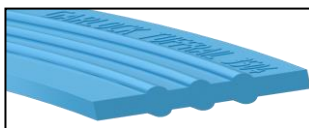
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Cyclohexanone	A	A
2,4-D, Salts and Esters	A	A
Detergent Solutions	B ³	A
Diazomethane	A	A
Dibenzofuran	A	A
Dibenzylether	A	A
1,2-Dibromo-3-chloropropane	A	A
Dibromoethane	A	A
Dibutyl Phthalate	A	A
Dibutyl Sebacate	A	A
o-Dichlorobenzene	A	A
1,4-Dichlorobenzene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

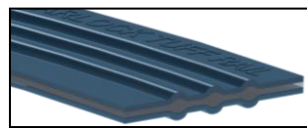
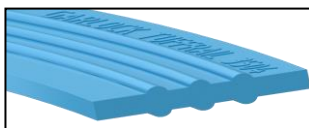
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Dynalene EG	A	A
Dynalene PG	A	A
Dynalene HC Series	A	A
Dynalene MV	A	A
Dynalene HF-LO	A	A
Dynalene Calcium Chloride	A	A
Epichlorohydrin	A	A
E85 (85% Ethanol, 15% Gas)	A	A
1,2-Epoxybutane	A	A
Ethane	A	A
Ethanol, Ethyl Alcohol	A	A
Ethers	A	A
Ethyl Acetate	A	A
Ethyl Acrylate	A ¹	A ¹
Ethyl Alcohol	A	A
Ethylbenzene	A	A
Ethyl Carbamate	A	A
Ethyl Cellulose	A	A
Ethyl Chloride	A	A
Ethyl Ether	A	A
Ethyl Hexoate	A	A
Ethylene Bromide	A	A
Ethylene Dibromide	A	A
Ethylene Dichloride	A	A
Ethylene Glycol	A	A
Ethyleneimine	—	A
Ethylene Oxide	A ¹	A ¹
Ethylene Thiourea	A	A
Ethylidene Chloride	A	A
Ferric Chloride	A	A
Ferric Phosphate	A	A
Ferric Sulfate	A	A
Formaldehyde	A ¹	A ¹
Formic Acid	A	A
Fuel Oil	A	A
Fuel Oil, Acid	A	A
Furfural	A	A
Gasoline, Refined	A	A
Gasoline, Sour	A	A
Gelatin	A	A
Glucose	A	A
Glue, Protein Base	A	A
Glycerine, Glycerol	A	A
Glycol	A	A
Grain Alcohol	A	A
Grease, Petroleum Base	A	A
Green Sulfate Liquor	B	A
Heptachlor	A	A
Heptane	A	A
Hexachlorobenzene	A	A
Hexachlorobutadiene	A	A

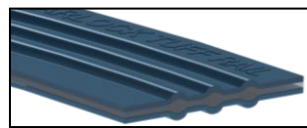
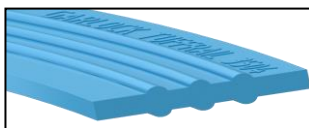
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Hexachlorocyclopentadiene	A	A
Hexachloroethane	A	A
Hexadecane	A	A
Hexamethylene Diisocyanate	A	A
Hexamethylphosphoramide	A	A
Hexane	A	A
Hexone	A	A
Hydraulic Oil, Mineral	A	A
Hydraulic Oil, Synthetic (Phosphate Esters)	A	A
Hydrazine	A	A
Hydrobromic Acid	A	A
Hydrochloric Acid	A	A
Hydrocyanic Acid	A	A
Hydrofluoric Acid, Anhydrous	C	A
HF Acid, Less than 65%, Above 150°F	C	A
HF Acid, 65% to Anhydrous, Above 150°F	C	A
HF Acid, Up to Anhydrous, 150°F & below	C	A
Hydrofluorosilicic Acid	C	A
Hydrofluosilicic Acid	C	A
Hydrogen Bromide	A	A
Hydrogen Fluoride	C	A
Hydrogen Peroxide, 10%	A	A
Hydrogen Peroxide, 10-90%	A	A
Hydrogen Sulfide, Dry or Wet	A	A
Hydroquinone	A	A
Iodine Pentafluoride	—	—
Isobutane	A	A
Isooctane	A	A
Isophorone	A	A
Isopropyl Alcohol	A	A
Jet Fuels (JP A, B and JP4 thru JP8)	A	A
Jet Fuels, JP9 and JP10	A	A
Kerosene	A	A
Lacquer Solvents	A	A
Lacquers	A	A
Lactic Acid, 150°F and below	A	A
Lactic Acid, Above 150°F	A	A
Lime Saltpeter (Calcium Nitrates)	A	A
Lindane	A	A
Linseed Oil	A	A
Liquified Petroleum Gas (LPG)	A	A
Lithium Bromide	A	A
Lithium, Elemental	C	C
Lubricating Oils, Refined	A	A
Lubricating Oils, Mineral or Petroleum Types	A	A
Lubricating Oils, Sour	A	A
Lye	B	A ²
Magnesium Chloride	A	A
Magnesium Hydroxide	A	A
Magnesium Sulfate	A	A
Maleic Acid	A	A

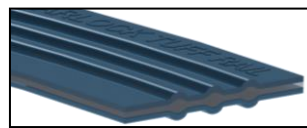
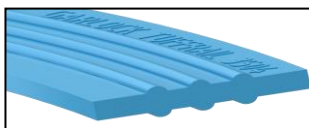
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Maleic Anhydride	A	A
Mercuric Chloride	A	A
Mercury	A	A
Methanol, Methyl Alcohol	A	A
Methoxychlor	A	A
Methylacrylic Acid	A	A
Methyl Alcohol	A	A
2-Methylaziridine	–	A
Methyl Bromide	A	A
Methyl Chloride	A	A
Methyl Chloroform	A	A
4,4 Methylene Bis(2-chloroaniline)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

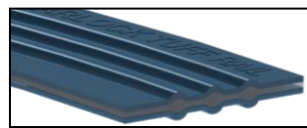
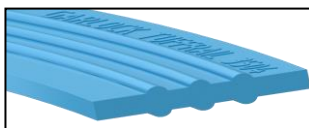
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2-Nitro-2-Methyl Propanol	A	A
Nitromuriatic Acid (Aqua Regia)	A	A
4-Nitrophenol	A	A
2-Nitropropane	A	A
N-Nitrosodimethylamine	A	A
N-Nitroso-N-Methylurea	A	A
N-Nitrosomorpholine	A	A
Norge Niter (Calcium Nitrate)	A	A
Norwegian Saltpeter (Calcium Nitrate)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

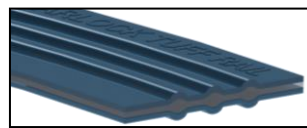
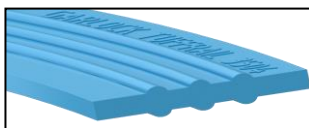
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Potassium Hydroxide (<150°F)	A	A ²
Potassium Nitrate	A	A
Potassium Permanganate	A	A
Potassium Sulfate	A	A
1,3-Propane Sultone	A	A
Beta-Propiolactone	A	A
Propionaldehyde	A	A
Propoxur (Baygon)	A	A
Propyl Alcohol	A	A
Propyl Nitrate	A	A
Propylene Dichloride	A	A
Propylene Glycol	A	A
Propylene Oxide	A	A
1,2-Propylenimine	–	A
Prussic Acid, Hydrocyanic Acid	A	A
Pyridine	A	A
Quinoline	A	A
Quinone	A	A
Salt Water	A	A
Saltpeter, Potassium Nitrate	A	A
2,4-D Salts and Esters	A	A
Sewage	A	A
Silver Nitrate	A	A
Skydrols	A	A
Soap Solutions	A	A
Soda Ash, Sodium Carbonate	A	A
Sodium Bicarbonate, Baking Soda	A	A
Sodium Bisulfate (Dry)	A	A
Sodium Bisulfite	A	A
Sodium Chlorate	A	A
Sodium Chloride	A	A
Sodium Cyanide	C	A
Sodium Hydroxide (<150°F)	A	A ²
Sodium Hypochlorite	A	A
Sodium Metaborate Peroxyhydrate	A	A
Sodium Metaphosphate	A	A
Sodium Nitrate	A	A
Sodium Perborate	A	A
Sodium Peroxide	A	A
Sodium Phosphate, Monobasic	A	A
Sodium Phosphate, Dibasic	B	A
Sodium Phosphate, Tribasic	B	A
Sodium Silicate	B	A
Sodium Sulfate	A	A
Sodium Sulfide	A	A
Sodium Superoxide	A	A
Sodium Thiosulfate, "Hypo"	A	A
Soybean Oil	A	A
Stannic Chloride	A	A
Stearic Acid	A	A
Stoddard Solvent	A	A

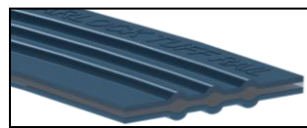
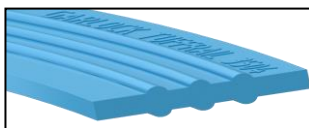
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Media	3504 TUFF-RAIL™ Gasket	3545 TUFF-RAIL™ Gasket
Styrene	A ¹	A ¹
Styrene Oxide	A	A
Sulfur Chloride	A	A
Sulfur Dioxide	A	A
Sulfur Trioxide, Dry	A	A
Sulfur Trioxide, Wet	A	A
Sulfuric Acid, 10-98%, 150°F and below	A	A
Sulfurous Acid	A	A
Syltherm 800	A	A
Syltherm XLT	A	A
Tannic Acid	A	A
Tar	A	A
Tartaric Acid	A	A
2,3,7,8-TCDB-p-Dioxin	A	A
Tertiary Butyl Amine	A	A
Tetrabromoethane	A	A
Tetrachlorethane	A	A
Tetrachloroethylene	A	A
Tetrahydrofuran, THF	A	A
Therminol 44	A	A
Therminol 55	A	A
Therminol 59	A	A
Therminol 60	A	A
Therminol 66	A	A
Therminol 75	A	A
Therminol D12	A	A
Therminol LT	A	A
Therminol VP-1	A	A
Therminol XP	A	A
Thionyl Chloride	A	A
Titanium Sulfate	A	A
Titanium Tetrachloride	A	A
Toluene	A	A
2,4-Toluenediamine	A	A
2,4-Toluenediisocyanate	A	A
Toluene Sulfonic Acid	A	A
o-Toluidine	A	A
Toxaphene	A	A
Transformer Oil (Mineral Type)	A	A
Transmission Fluid A	A	A
Trichloroacetic Acid	A	A
1,2,4- Trichlorobenzene	A	A
1,1,2-Trichloroethane	A	A
Trichloroethylene	A	A
2,4,5-Trichlorophenol	A	A
2,4,6-Trichlorophenol	A	A
Tricresylphosphate	A	A
Triethanolamine	A	A
Triethyl Aluminum	A	A
Triethylamine	A	A
Trifluralin	A	A

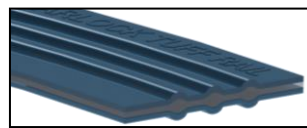
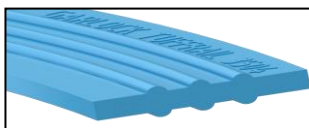
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Media	3504 TUFF-RAIL™ Gasket	3545 TUFF-RAIL™ Gasket
2,2,4-Trimethylpentane	A	A
Tung Oil	A	A
Turpentine	A	A
UCON Heat Transfer Fluid 500	A	A
UCON Process Fluid WS	A	A
Urea (<150°F)	A	A
Varnish	A	A
Vegetable Oil	A	A
Vinegar	A	A
Vinyl Acetate	A ¹	A ¹
Vinyl Bromide	A ¹	A ¹
Vinyl Chloride	A ¹	A ¹
Vinylidene Chloride	A ¹	A ¹
Vinyl Methacrylate	A	A
Water, Distilled	A	A
Water, Potable ⁴	A	A
Whiskey and Wines	A	A
Wood Alcohol	A	A
Xceltherm 550	A	A
Xceltherm 600	A	A
Xceltherm MK1	A	A
Xceltyherm XT	A	A
Xylene	A	A
Zinc Chloride	A	A
Zinc Sulfate	A	A

NOTES:

1. This chemical is a monomer. Contact Applications Engineering if the chemical is not inhibited.
2. TUFF-RAIL™ 3545 gaskets can be expected to be suitable to 75% concentration at temperatures up to 400°F (204°C).
3. Some detergent solutions are strongly alkaline and/or may contain bleach. Please contact Applications Engineering.
4. If NSF 61 Approved gaskets are required contact Applications Engineering.

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