GRA-FLEX - Chemical Resistance Chart

The information in this chart is intended to be a guideline for selection of the suitable gasket quality. Because the function and durability of the products depend upon a number of factors that could not be included in the chart, the data may not be used to support any warranty claims.

A suitable for application
B suitability depends on operating conditions
C not suitable

Acetaldehydes	A	Dichromates	C
Acetic acid	A	Diesel oil	A
Acetic acid amil ester	A	Diethyl ether and glycol	A
Acetone	A	Diethylamine	A
Acetyilene	A	Dimethyl ether	A
Acrylic acid	A	Dimethyl formamide	A
Acrylic acid ethyl ester	A	Dimethyl sulphoxide	A
Acrylonitrile	A	Dioxane	A
Adipic acid	A	Diphenyl ether	A
Air <450°C	B	Epichlorohydrine	A
Aluminium	A	Ethane	A
Ammonia	A	Ethanol	A
Ammonium hydroxide	A	Ethyl acetate	A
Aniline	A	Ethyl alcohol	A
Aqua regia (nitromuriatic acid)	C	Ethyl benzene	A
Benzaldeyde	A	Ethyl butyl ester	A
Benzene	A	Ethyl chloride	A
Bleach liquor	A	Ethyl methyl ketone	A
Soda	A	Ethylene	A
Potash	A	Ethylene chloride	A
Borates	A	Ethylene glycol	A
Boric acid	A	Fluorides	A
Bromic acid	A	Fluorine	C
Bromides	A	Formaldeyde	A
Bromine	C	Formic acid	A
Butane	A	Freons	A
Calcium chloride	A	Fuel oil	A
Calcium hydroxide	A	Glycerine	A
Calcium nitrate (lime nitrate)	C	Glycols	A
Carbon dioxide <600°C	B	Gold	A
Carbon disulphide	A	Heat transfer oils	A
Carbon monoxide	A	Hexane	A
Carbon tetrachloride	A	Hexachlorphenyl acetic acid	A
Carbonates	A	Hydraulic oils	A
Caustic potash solution	A	Hydrazine	A
Caustic soda solution	A	Hydrochloric acid	A
Chlorides	A	Hydrofluoric acid	A
Chlorine, dry	A	Hydrogen	A
Chlorine, moist <30°C	B	Hydrogen bromide	A
Chlorine dioxide and trioxide	C	Hydrogen chloride	A
Chlorine trifluoride	C	Hydrogen dioxide < 600°C	B
Chlorobenzene	A	Hydrogen fluoride	A
Chloroform	A	Hydrogen peroxide < 85%	B
Chromates <20%	B	Hydrogen sulphide	A
Cromic acid	C	Iodides	A
Cromic anhydride	C	Iron, melt	C
Chromosulphuric <20%	B	Iso-octane	A
Citric acid	A	Isolbutyl alcohol	A
Copper	A	Isopropyl alcohol	A
Cycloexanol	A	Lead	A

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Lubrificating oils			A	Potassium hydroxide < 400°C			B
Magnesium, pure and salts			A	Potassium nitrate			C
Maleic acid			A	Propane			A
Mercaptans			A	Propyl alcohol			A
Mercury, pure and salts			A	Propylene			A
Methane			A	Salicylic acid			A
Methanol			A	Sea water			A
Methyl alcohol			A	Silicones			A
Methyl chloride			A	Siloxanes			A
Methyl ethyl ether			A	Silver, melt and salts			A
Methyl isobutyl ketone			A	Sodium <350°C			B
Methylen chloride			A	Sodium chlorate <4%			B
Monochloroacetic acid			A	Sodium hydroxide <400°C			B
Motor oils			A	Sodium peroxide			C
Naphta			A	Steam			A
Natural gas			A	Stearic acid			A
Nickel, melt and salts			A	Styrene			A
Nitrates			A	Sulphates			A
Nitrating acid			C	Sulphonic			A
Nitric acid	conc.	temp.	B	Sulphur			A
	0-10%	<100°C		Sulphur dioxide			A
	11-65%	<50°C		Sulphur hexafluoride			A
	>65%	never		Sulphur trioxide			C
Nitric oxide, moist			C	Sulphuric acid	conc.	temp.	B
Nitrites			A		70-85%	<170°C	
Nitrocalcite			C		86-90%	<145°C	
Nitrobenzene			A		91-95%	<70°C	
Nitrogen			A		>95%	never	
Nitrogen dioxide (dry) <600°C			B	Sulphurous acid			A
Nitrous oxide (dry)			A	Tannic acid			A
Oleum			C	Tartaric acid			A
Oxygen <350°C			B	Thermal oils			A
Ozone			C	Thyonil chloride			A
Paint thinner			A	Tin			A
Paraffin oil (Kerosene)			A	Toulene			A
Perborates			C	Transformer oil			A
Perchloroetylene			A	Trichloroacetic acid			A
Perchloric acid <20%			B	Trichloroethylene			A
Persulphates			C	Triethylaminoethanol			A
Petrol (gasoline)			A	Vegetable oils			A
Phenol			A	Wood's alloy			A
Phenylacetic acid			A	Xylene			A
Phosgene			A	Zinc, melt and salts			A
Phosphates			A				
Phosphoric acid			A				
Phthalic acid			A				
Potassium, melt <350°C			B				
Potassium chlorate			C				
Potassium chromate, bichromate			C				
Potassium hydrogen sulphate			A				