Resistance in basic chemicals

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Diethyl ether (ether) – pure	$CH_3CH_2OCH_2CH_3$	-	-	-	+	O	+	O	-	-	+	+	+	+	+	+	+	+	+
Dimethylamine – pure	$(CH_3)_2NH$	-	O	-	+	-	+	+	-	O	-	-	O		O	O	O	+	+
Dimethylformamide (DMF) – pure	$HCON(CH_3)_2$	-	-	-	+	-	+	O	-	+	-	-	O	+	O	O	O	+	+
Dimethyl sulfoxide (DMSO) – pure	$(CH_3)_2SO$				+		+				O	-	+	O					
Dinitrogen monoxide (laughing gas, nitrous oxide) – pure	N_2O	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Di-octyl-phthalate (DOP) – pure	$C_6H_4(COOC_8H_{17})_2$	-	O	O	+	-	+	+	-	+	+	O	+		+	+	+	+	+
Dioxane – pure	C_4H_8O	-	O	-	+	-	+	O	-	-	+	-	+		+	+	+	+	+
Diphenyl + diphenyl oxide – pure		-	-	-	+	-	+	+	-	-	+		+		+	+	+	+	+
Dissous gas (acetylene + acetone)	C_2H_2+ CH_3COCH_3	-	+	-		-	+	+	-	O	+		+		+		+	+	+
E																			
Essential oils		-	-	-	+	-	+		-	-	-		O		O	O	O	+	+
Ethane – pure	CH_3CH_3	+	-	+	+	+	+	+	-	-	+	-	+	+	+	+	+	+	+
Ethanedioic acid – aqueous (saturated)	HOOCCOOH	O	+	+	+	+	+	+	+	+	-	+	+	+	-	-	-	+	O
Ethanol (ethyl alcohol) – pure	CH_3CH_2OH	O	+	O	+	+	+	+	O	+	O	+	+	+	+	+	+	+	+
Ethanolamine – pure	$NH_2CH_2CH_2OH$	O	O	-	+	O	+		O	+	+	O	O		-	-	+	+	+
Ether (diethyl ether) – pure	$CH_3CH_2OCH_2CH_3$	-	-	-	+	-	+	O	-	-	+	+	+	+	+	+	+	+	+
Ethyl acetate – pure	$CH_3CO_2CH_2CH_3$	-	O	-	O	-	+	O	-	-	O	O	+	+	-	+	+	+	+
Ethyl acrylate – pure	$CH_2CHCOOC_2H_5$	-	O	-	+	-	+		-			O	+				+	+	+
Ethyl alcohol (ethanol) – pure	CH_3CH_2OH	O	+	O	+	+	+	+	O	+	O	+	+	+	+	+	+	+	+
Ethyl alcohol + acetic acid	CH_3CH_2OH+ CH_3COOH	O	+	O	+	O	+	+	O	+	-	+	+	+	O	O	O	+	+

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Ethyl alcohol – fermented mash		+	+	+	+	+	+	+	+	+	O	+	+	+	+	+	O	+	+
Ethyl alcohol – methylated (spirit)		O	O	O	+	O	+	+	+	+	O		+	+	O	O	+	+	+
Ethylbenzene – pure	$C_6H_5CH_2CH_3$	-	-	O	+	-	+	O	-	-	+	+	O		+	+	+	+	+
Ethyl chloride – pure	CH_3CH_2Cl	+	+	+	+	+	+	+	-	-	+	+	O		-	-	-	+	+
Ethylene – pure	CH_2CH_2	+	-	+	+	-	+		+	+	+	+	+	+	+	+	+	+	+
Ethylene bromide (anhydrous) – pure	CH_2CHBr	-	-	-	+	-	+	+	-	-	+	+	O	-	+	+	O	+	+
Ethylene chlorohydrin (chloroethanol) – pure	$ClCH_2CH_2OH$	-	-	O	+	-	+	+	-	+	O	+	O	O	+	+	+	+	+
Ethylene chloride (dichloroethane) – pure	$ClCH_2CH_2Cl$	-	-	-	+	-	+	+	-	-	+	+	O	+	-	-	-	+	-
Ethylenediamine – pure	$NH_2CH_2CH_2NH_2$	O	+	O	O	+	+	+	-	+	O	+	O		-	-	O	+	O
Ethylene glycol (glycol) – pure	$HOCH_2CH_2OH$	+	+	+	+	+	+	+	+	+	O	+	+	+	O	O	O	+	+
Ethylene oxide – pure	CH_2CH_2O	-	-	-	O	-	+	+	-	-	-	+			-	-	-	+	+
Ethyl formate – pure	$HCOOCH_2CH_3$	-	O	-	+	-	+		-	O	+	+	+		+	+	O	+	+
Exhaust fumes – containing hydrogen fluoride		+	+	+	+	+	+		+	+	O	+	-	-	O	O	O	O	O
Exhaust fumes – containing carbon dioxide		+	+	+	+	+	+		+	+	+	+	+	+	+	+	O	+	O
Exhaust fumes – containing carbon monoxide		+	+	+	+	+	+		+	+	+	+	+	+	+	+	+	+	+
Exhaust fumes – containing nitrous gases		O	+	+	+	+	+		+	+	-	+		+	-	-	O	+	+
Exhaust fumes – containing hydrochloric acid		+	+	+	+	+	+		+	+	-	+	-	O	O	O	-	O	-
Exhaust fumes – containing sulphur dioxide (dry)		O	+	+	+	+	+		+	+	O	+	+	+	+	+	+	+	+
Exhaust fumes – containing sulphuric acid (humid)		O	+	+	+	+	+		+	+	-	+	O	-	-	-	-	+	O

Resistance in basic chemicals

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Exhaust fumes – containing sulphur trioxide (dry)		O	+	+	+	+	+		+	+	+	+		+	O	O	O	+	+
F																			
Fatty alcohols		+	O	+	+	+	+	+	+	O	+		+		+	+	O	+	O
Fatty alcohol sulphates – aqueous		+	O	+	+	+	+	+	+	+	O	+			O	O	O	+	+
Ferric chloride – aqueous (saturated)	$FeCl_3$	+	+	+	+	+	+	+	+	+	-	+	+	+	-	-	-	-	-
Fluorine (dry) – pure	F_2	-	-	O	O	-	O	O	O	-	-	-	-	-	O	O	-	+	+
Fluorine (humid) – pure	F_2	-	-	-	-	-	+	O	O	-	-	O	-	-	-	-	-	O	O
Fluoroboric acid (boron hydrofluoric acid)	HBF_4	+	+	+	O	+	+	+	+	+	-	+	+		-	-	-	-	-
Fluosilicic acid – aqueous	H_2SiF_6	O	O	O	+	O	+		+	+	-	+	-		-	-	-	O	O
Formaldehyde solution (formalin) – aqueous	CH_2O	O	O	O	+	O	+	+	+	+	+	+	O	O	-	+	-	+	+
Formamide – pure	$HCONH_2$	+	+	O	O	+	+		+	O	O		O		O	O	O	+	O
Formic acid – pure	HCOOH	-	O	-	O	O	+	+	O	O	-	O	O	O	-	-	-	+	O
Formic acid – aqueous	HCOOH	-	O	O	O	O	+	+	O	O	-	O	O	+	-	-	-	+	O
Frigene 12 (R-12) – pure	CCl_2F_2	+	-	O	O	O	+	+	O	O	+	O	O	+	+	+	+	+	+
Frigene 13 (R-13) – pure	$CClF_3$	+	-	O	O	+	+	+	-	-		-	+	+	+	+	O	+	+
Frigene 13 B 1 (R-13B1; halon 1301) – pure	$CBrF_3$	+	-	O	+	+	+		-	-	+	O			+	+	+	+	+
Frigene 22 (R-22) – pure	$CHClF_2$	-	-	-	O	-	+	+	-	-	+	-	+	+	+	+	+	+	+
Frigene 23 (R-23) – pure	CHF_3	+	-	O	-	+	+		-	-		O			+	+	O	+	+
Frigene 113 (R-113) – pure	$Cl_2FCCClF_2$	+	-	-	-	+	+	O	-	-	+	+	O	+	+	+	+	+	+
Frigene 502 (R-502) – pure	$C_2F_5Cl+CHF_2Cl$	-	-	-	O	O	+		+	O	+	O		+	+	+	+	+	+

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Frigene substitute HFCKW 123 (R-123) – pure	F_3CCHCl_2	-	-	-	-	-	+								+	+	+	+	+
Frigene substitute HFCKW 134a (R-134a) – pure	F_3CCH_2F			-	-		+						+	+	+	+	+	+	+
Fuming sulphuric acid (Oleum) – pure	H_2SO_4	-	-	O	+	-	+	+	O	O	-	-	O	-	-	-	O	+	O
G																			
Glycerine – aqueous	$HOCH_2CH(OH)-CH_2OH$	+	+	+	+	+	+	+	O	O	+	+	+	+	O	O	O	+	O
Glycerine – pure	$HOCH_2CH(OH)-CH_2OH$	O	+	+	+	O	+	+	O	O	+	+	+	+	O	O	O	+	O
Glycine (aminoacetic acid) – aqueous	NH_2CH_2COOH	O	+	+		+	+	+	+	+	O	+	+		O	O	O	+	+
Glycol (ethylene glycol) – pure	$HOCH_2CH_2OH$	+	+	+	+	+	+	+	+	+	O	+	+	+	O	O	O	+	+
Glycol ethyl ether (cellosolve) – pure	$HO(CH_2)_2OCH_2CH_3$	-	-	-	+	-	+	+	-	-	+	+	+		+	+	+	+	+
Glycolic acid – aqueous	$HOCH_2COOH$	+	+	+	+	+	+	+	+	+	-	+	+		O	O	O	O	O
Glycose (dextrose) – aqueous	$C_6H_{12}O_6$	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Grid gas (illuminating gas, town gas)		+	+	+	+	+	+	+	+		+	+			+	+	+	+	+
H																			
Helium – pure	He	+	+	+	+	+	+	+	+	+	+	+	+	+	O	O	O	+	+
Heptane (hexane, benzine) – pure		+	-	+	+	+	+	+	+	O	+	+	+	+	+	+	+	+	+
Hexamethylene tetramine (Urotropin) – aqueous	$C_6H_{12}N_4$	+	+	+	+	+	+	+	+	+	+		O		O	O	O	+	+
Humic acids		+	+	+		+	+	+	+	+	-				+	+	O	+	+
Hydrazine hydrate – aqueous	$NH_2NH_2 \times 2H_2O$	-	+	+	+	-	+	+	+	-		O		+	-	-	-	-	O
Hydrobromid acid – aqueous	HBr	-	+	+	+	O	+	+	+	+	-	+	-	-	-	-	O	-	-
Hydrochloric acid – aqueous (36%)	HCl	-	O	+[5]	+	-	+	+	+	+	-	+	-	O	-	-	-	O	O

Resistance in basic chemicals

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Hydrocyanic acid – aqueous	HCN	O	O	+	+	+	+	+	+	+	-	+	+		+	+	O	+	O
Hydrofluoric acid – aqueous	HF	-	-	-	-	-	+	+	O	O	-	+	-	-	-	-	-	O	-
Hydrogen chloride gas – pure	HCl	O	+	+	+	O	+	+	+	+	-	+	-	+	-	-	-	+	O
Hydrogen peroxide 0.5%	H_2O_2	O	+	+	+	+	+	+	-	-	+	+	O	+	-	-	-	+	O
Hydrogen peroxide 30%	H_2O_2	-	O	+[5]	+	-	+	+	-	-	-	+	O	+	-	-	-	O	-
Hydrogen – pure	H_2	+	+	+	+	+	+	+	+	+	+	+	+	+	+[7]	+[7]	+[7]	+[7]	+[7]
Hydrogen sulphide – aqueous	H_2S	O	+	-	O	O	+	+	O	O	-	+	O	+	O	O	O	+	+
Hydroquinone – aqueous	$C_6H_4(OH)_2$	+	+	+	+	O	+		+	+	-	+	O				O	O	+
Hydroxybenzene (carbolic acid, phenol) – aqueous	C_6H_5OH	O	O	O	+	O	+	+	+	+	-	+	+	O	O	O	O	+	+
Hydroxylamine sulphate – aqueous	$(NH_3OH)_2SO_4$	+	+	+	+	O	+		+	+	+				-	-	+	+	+
I																			
Illuminating gas (town gas, grid gas)		+	+	+	+	+	+	+	+		+	+			+	+	+	+	+
Inert gases – pure		+	+	+	+	+	+	+	+	+	+	+	+	+	O	O	O	O	+
Iodine + potassium iodine – aqueous	I_2+ KI	O	O	O	+	O	+		O	O	-	+	-	O	-	-	O	O	O
Iron sulphate – aqueous	$FeSO_4$	+	+	+	+	+	+	+	+	+	+	+	+	+	O	O	-	+	+
Isobutanol – pure	$(CH_3)_2CHCH_2OH$	O	+	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+
Isooctane – pure	$CH_3C(CH_3)_2CH_2CH(CH_3)CH_3$	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Isopropanol (2-propanol) – pure	$CH_3CH(OH)CH_3$	O	+	+	+	+	+	+	+	+	O	+	+	+	+	+	+	+	+
K																			
Kerosene		+	-	+	+	+	+	+	+	O	+	+	+	+	+	+	O	+	+

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
L																			
Lactic acid – aqueous	$HOOCCH(OH)CH_3$	O	O	+[5]	+	+	+	+	O	+	O	+	+	+	O	O	O	O	O
Laughing gas (dinitrogen monoxide, nitrous oxide) – pure	N_2O	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Lead acetate – aqueous	$Pb(CH_3COO)_2$	O	+	+	+	+	+	+	+	+	+	+	+	+	O	O	-	+	+
Lead nitrate – aqueous	$Pb(NO_3)_2$	+	+	+	+	+	+	+	+	+			+		-	-	O	+	+
Lead tetraethyl (tetraethyl lead) – pure	$Pb(CH_2CH_3)_4$	O	O	+	+	O	+	+	+	+	+	+		+	O	O	+	+	+
Light petroleum (petroleum spirit)		+	-	+	+	+	+	+	+	O	+	+	+	+	+	+	O	+	+
Lime water (calcium hydroxide) – aqueous	$Ca(OH)_2$	+	+	+	+	+	+	+	+	+	O	O	+	+	-	-	-	+	+
Linoleic acid – pure	$C_{18}H_{32}O$	O	-	O	+	-	+		+	-		+	+		O	O	O	+	O
Lithium chloride – aqueous	LiCl	+	+	+	+	O	+	+	+	+	O	+	+		O	O	O	O	O
M																			
Magnesium chloride – aqueous	$MgCl_2$	+	+	+	+	+	+	+	+	+	O	+	+	+	O	O	O	O	O
Magnesium sulphate – aqueous	$MgSO_4$	+	+	+	+	+	+	+	O	O	O	+	+	+	+	+	-	+	+
Maleic acid – aqueous	HOOCCHCHCOOH	+	+	+	+	+	+	+	+	+	O	+	+	+	O	O	O	+	O
Malic acid – aqueous	$HOOCCH_2CHOH$-COOH	+	+	+	+	+	+		+	+	+	+	+		-	-	-	+	+
Manganese chloride – aqueous	$MnCl_2$	+	+	+	+	+	+		+	+	+		+		O	O	O	O	O
Manganese sulphate – aqueous	$MnSO_4$	+	+	+	+	+	+		+	+	+	+	+		O	+	O	+	O
Marsh gas (methane, mine gas)	CH_4	+	-	+	+	-	+	+	O	O	+	O	+	+	+	+	+	+	+
Mercaptane		-	-	O	+	-	+		+		+	O			O	O	-	+	+
Mercury – pure	Hg	+	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	O	+

Resistance in basic chemicals

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Mercury chloride – aqueous	$HgCl_2$	+	+	+	+	+	+		O	+	-	+	+	+	-	-	-	O	O
Mercury salts – aqueous		+	+	+	+	+	+	+	+	+	-	+	+	+	-	-	-	+	+
Methane (mine gas, marsh gas)	CH_4	+	-	+	+	-	+	+	O	O	+	O	+	+	+	+	+	+	+
Methanol (methyl alcohol) – pure	CH_3OH	-	+	-	+	+	+	+	+	O	O	O	+	+	O	O	O	+	O
Methoxybenzene (Anisole) – pure	$C_6H_5OCH_3$	O	O	-	+	-	+		-	-	+		+		+	+	+	+	+
Methoxybutanol – pure	$CH_3O(CH_2)_3CH_2OH$	+	+	+	+	O	+		+	+			+		+	+	+	+	+
Methoxybutyl acetate (butoxyl) – pure	$CH_3OC_4H_4O_2CCH_3$	+	O	O		+	+		-	+					O	O	O	+	+
Methyl acetate – pure	CH_3COOCH_3	-	O	-	+	-	+	O	-	+	+	O	+	+	O	+	O	O	O
Methyl alcohol (methanol) – pure	CH_3OH	-	+	-	+	+	+	+	+	O	O	O	+	+	O	O	O	+	O
Methylamine – aqueous	CH_3NH_2	-	O	O	-	O	+	+	O	+	O	-	O	+	-	-	O	O	O
Methyl chloride (chloromethane) – pure	CH_3Cl	-	-	+	+	-	+	+	-	-	O	-	O	+	O	O	O	+	+
Methylene chloride (dichloromethane) – pure	CH_2Cl_2	-	-	O	+	-	+	O	-	-	-	-	O	O	+	+	-	+	+
Methyl ethyl ketone (2-butanon) – pure	$CH_3COCH_2CH_3$	-	O	-	+	-	+	+	-	-	O	-	O	O	+	+	O	+	+
Mine gas (methane, marsh gas)	CH_4	+	-	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+
Monosodium glutamate – aqueous	$C_5H_8NNaO_4$	+	+	+	+	+	+	+	+	+							O	+	+
Morpholine – pure	C_4H_9NO	-	O	O	O	O	+	+	-	+		+	O		+	+	+	+	+
N																			
Natural gas		+	-	+	+	+	+	+	O	O	+	+	+	+	O	O	O	+	+
Nickel sulphate – aqueous	$NiSO_4$	+	+	+	+	+	+	+	+	+	+	+	+	+	-	O	-	O	O
Nitrogen oxides (nitrous fumes)	(NO, NO_2, N_2O_3, N_2O_4, etc.)	-	O	-	O	-	+	O	O	O	-	O		+	-	-	-	O	-
Nitrogen – pure	N_2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nitrous oxide (laughing gas, dinitrogen monoxide) – pure	N_2O	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Nitric acid – aqueous (40%)	HNO_3	-	-	+[5]	+	-	+	O	O	O	-	+	-	O	-	-	-	+	-
Nitrobenzene – pure	$C_6H_5NO_2$	-	-	O	+	-	+	+	-	O	-	O	O	O	+	+	O	+	+
Nitrobenzoic acids – aqueous	$C_7H_5NO_4$	+	+	+	+	+	+		+	+	+		+		+	+	O	+	+
Nitrous fumes (nitrogen oxides)	(NO, NO_2, N_2O_3, N_2O_4, etc.)	-	O	-	O	-	+	O	O	O	-	O		+	-	-	-	O	-
Nitrotoluenes (o-, m-, p) – pure	$C_6H_4(NO_3)(CH_3)$	O	-	O	O	-	+		-	+	-	+	O	O	+	+	+	+	+
O																			
Oleum (fuming sulphuric acid) – pure	H_2SO_4	-	-	O	+	-	+	+	O	O	-	-	O	-	-	-	O	+	O
Oxygen – pure	O_2	O	O	+[6]	+	O	+	+	O	-	+	-	+[6]	+	+	+	-	+	+
Ozone (humid and dry)	O_3	-[4]	O[4]	O[4]	O[4]	-[4]	+	+	+	-[4]	-[4]	+	-[4]	O[4]	O	O	O	+	+
P																			
Paraffin oil		+	-	+	+	O	+	+	O	+	+	+	+	+	+	+	+	+	+
Peracetic acid – aqueous (6%)	CH_3CO_3H	-	O	-	+		+		+		-	O	-		-	-	-	+	+
Perchloroethylene (tetrachloroethylene) – pure	Cl_2CCCl_2	-	-	O	O	-	+	+	-	-	O	+	O	+	O	O	O	+	+
Peroxomonosulphuric acid – aqueous	H_2SO_5	-	-	-		-	+		+	-	-				-	-	-	-	-
Petroleum spirit (light petroleum)		+	-	+	+	+	+	+	+	O	+	+	+	+	+	+	O	+	+
Phenol (hydroxybenzene, carbolic acid) – aqueous	C_6H_5OH	O	O	O	+	O	+	+	+	+	-	+	+	O	O	O	O	+	+
Phosgene (carbonyl chloride) [liquid] – pure	$COCl_2$		-	O	+	-	+		O	O	O				+	+	+	+	+

Resistance in basic chemicals

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Phosgene (carbonyl chloride) [gaseous] – pure	$COCl_2$		-	+	+	-	+	+	+	-	O	+			+	+	+	+	+
Phosphoric acid – aqueous	H_3PO_4	O	O	+	+	-	+	+	+	+	-	+	+	+	-	-	-	+	-
Phosphorus chlorides – pure	PCl_2, PCl3, PCl_5	-	-	O	+	-	+	+	-	+	-	+		+		O	O	O	O
Picric acid (trinitrophenol) – pure	$C_6H_2(OH)(NO_2)_3$	O	-	O	+	-	+	+	-	+		+		+	+	+	+	+	+
Pinene (turpentine oil) – pure		O	-	O	+	-	+		O	-	+	+	+	+	O	O	+	+	+
Potash (potassium carbonate) – aqueous	K_2CO_3	+	+	+	+	O	+	+	+	+	O	O	+	+	O	O	O	+	+
Potassium aluminium sulphate (alum) – aqueous	$KAl(SO_4)_2$ x 12 H_2O	+	+	+	+	+	+		+	+	+	+	+	+	-	-	-	+	O
Potassium bromate – aqueous	$KBrO_3$	+	+	+	+	+	+	+	+	+		+	-		-	O	O	+	O
Potassium bromide – aqueous	KBr	+	+	+	+	+	+	+	+	+	-	+	+	+	+	+	O	O	O
Potassium carbonate (potash) – aqueous	K_2CO_3	+	+	+	+	O	+	+	+	+	O	O	+	+	O	O	O	+	+
Potassium chlorate – aqueous	$KClO_3$	O	O	O	+	O	+	+	+	+	O	O	-	+	O	O	O	O	O
Potassium chloride – aqueous	KCl	+	+	+	+	+	+	+	+	+	+	+	+	+	O	O	O	O	O
Potassium chromate – aqueous	K_2CrO_4	O	+	O	+	O	+	+	+	+	-	+	+		+	+	O	O	O
Potassium cyanide – aqueous	KCN	+	+	+	+	+	+	+	+	+	+	+		+	-	-	O	+	+
Potassium dichromate – aqueous	$K_2Cr_2O_7$	O	O	O	+	O	+		+	+	-	+	-	+	O	O	O	+	+
Potassium ferrocyanide (II) (yellow prussiate of potash) – aqueous	$K_4[Fe(CN)_6]$	+	+	+	+	+	+		+	+	+	+		+	+	+	O	O	-
Potassium ferrocyanide (III) (red prussiate of potash) – aqueous	$K_3[Fe(CN)_6]$	+	+	+	+	+	+		+	+	+	+	O	+	-	-	O	+	+
Potassium hydrogen fluoride – aqueous	KHF_2	+	+	+		+	+		+	+	-				O	O	O	+	+
Potassium hydroxide (caustic potash) – aqueous	KOH	-	+	-	+	O	+	+	+	+	O	O	O	+	-	-	O	+	+
Potassium hypochlorite – aqueous	KOCl	-	+	O	+	-	+	+	+	O	-	+	-	+	O	O	O	O	O
Potassium iodide – aqueous	KI	+	+	+	+	+	+	+	O	+		+			O	O	O	O	O
Potassium nitrate – aqueous	KNO_3	+	+	+	+	O	+	+	O	+	+	+	+	+	O	O	O	O	O
Potassium nitrite – aqueous	KNO_2	+	+	+	+	+	+		+	+	+	+		+	+	+	+	+	+
Potassium permanganate – aqueous	$KMnO_4$	-	-	-	+	O	+	+	+	O	-	+	-	+	O	O	O	+	O
Potassium peroxide – aqueous	K_2O_2	-	-	-	+	-	+		O	O	-		-	+	-	-	O	+	+
Potassium persulphate – aqueous	$K_2S_2O_8$	-	+	O	+	O	+	+	+	+	-	O	-	+	-	-	-	+	+
Potassium phosphate – aqueous	K_3PO_4	+	+	+	+	+	+		+	+	O	+		+	O	O	O	+	+
Potassium sulphate – aqueous	K_2SO_4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	O	+	+
Potassium sulphide – aqueous	K_2S	+	+	+	+	+	+	+	+	+	O	O	+	+	O	-	O	+	+
Potassium sulphite – aqueous	K_2SO_3	+	+	+	+	+	+		O	+	+			+	O	+	O	+	O
Propane (liquid and gaseous) – pure	C_3H_8	+	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Propanol – pure	$CH_3CH_2CH_2OH$	-	+	+	+	+	+	+	+	+	O	+	+	+	+	+	+	+	+
Propylene glycol – pure	$HOCH_2CH_2CH_2OH$	+	+	+	+	+	+	+	+	+	O	+	+	+	+	O	+	+	+
Protein solutions		+	+	+		+	+		+	+	+				O	O	O	+	+
Pyridine – pure	C_5H_5N	-	-	-	+	-	+	+	-	O	+	O	O	+	+	+	+	+	O
R																			
Red prussiate of potash (Potassium ferrocyanide (III)) – aqueous	$K_3[Fe(CN)_6]$	+	+	+	+	+	+		+	+	+	+	O	+	-	-	O	+	+

Resistance in basic chemicals

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
S																			
Shellsol D (turpentine substitute, white spirit) – pure		O	-	O	+	O	+		O	O	+	+	+	+	+	+	+	+	+
Silicone oil		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Silver nitrate – aqueous	$AgNO_3$	O	+	+	+	+	+	+	O	+	+	+	+	+	-	-	-	+	+
Soda lye (sodium hydroxide) – aqueous	NaOH	O	+	O	+	+	+	+	+	+	O	-	O	+	-	-	O	O	O
Sodium arsenate – aqueous	Na_3AsO_4	+	+	+	+	+	+	+	+	+					+	+	+	+	+
Sodium arsenite – aqueous	Na_3AsO_3	+	+	+	+	+	+	+	+	+					+	+	+	+	+
Sodium benzoate – aqueous	C_6H_5COONa	+	+	+	+	+	+	+	+	+	+	+			+	+	+	+	+
Sodium bicarbonate (sodium hydrogen carbonate) – aqueous	$NaHCO_3$	+	+	+	+	+	+	+	+	+	+	+	+	+	O	+	O	+	+
Sodium bisulphate (sodium hydrogen sulphate) – aqueous	$NaHSO_4$	+	+	+	+	+	+	+	+	+	+	+			O	O	O	O	O
Sodium bisulphite (bisulphite, sodium hydrogen sulphide) – aqueous	$NaHSO_3$	O	+	+	+	+	+	+	+	+	O	+	+	+	O	O	-	+	O
Sodium bromate – aqueous	$NaBrO_3$	+	+	+	+	+	+	+	+	+	O	+	+	+	-	O	O	+	O
Sodium bromide – aqueous	NaBr	+	+	+	+	+	+	+	+	+	-	+	+	+	O	O	O	O	O
Sodium carbonate (soda) – aqueous	Na_2CO_3	+	+	+	+	O	+	+	+	+	+	O	+	+	O	O	O	+	+
Sodium chlorate – aqueous	$NaClO_3$	O	O	O	+	O	+	+	+	+	O	+	-	+	O	O	O	O	O
Sodium chloride (table salt) – aqueous	NaCl	+	+	+	+	+	+	+	+	+	+	+	+	+	-	O	-	O	O
Sodium chlorite – aqueous	$NaClO_2$	-	O	O	+	-	+	+	O	O	-	+			O	O	-	O	-
Sodium chloroacetate – aqueous	$NaCH_2ClCOO$	+	+	+	+	+	+		+	+					O	+	O	+	+
Sodium chromate – aqueous	$NaCrO_4$	O	+	O	+	O	+	+	+	+	-	+	+	O	+	+	O	O	O
Sodium cyanide – aqueous	NaCN	+	+	+	+	+	+	+	+	+	+	+		+	-	-	O	+	+

Name	Formula	NBR	EPDM	FKM	FFKM	CR	PTFE	ETFE	PVC	PP	PA	PVDF	PPS	PEEK	MS	RG	GG, GS	1.4401/1.4571	1.4305/1.4105
Sodium disulphite (sodium metabisulphite) – aqueous	$Na_2S_2O_5$	O	+	+		+	+	+	+	+	+				O	O	-	+	O
Sodium dodecylbenzenesulfonate – aqueous	$C_{18}H_{29}NaO_3S$	+	+	+		+	+		+	O	+				O	O	O	+	+
Sodium fluoride – aqueous	NaF	+	+	+	+	+	+	+	+	+	+	+			+	+	O	+	O
Sodium hydrogen carbonate (sodium bicarbonate) – aqueous	$NaHCO_3$	+	+	+	+	+	+	+	+	+	+	+	+	+	O	+	O	+	+
Sodium hydrogen sulphate (sodium bisulphate) – aqueous	$NaHSO_4$	+	+	+	+	+	+	+	+	+	+	+			O	O	O	O	O
Sodium hydrogen sulphide (sodium bisulphite, bisulphite) – aqueous	$NaHSO_3$	O	+	+	+	+	+	+	+	+	O	+	+	+	O	O	-	+	O
Sodium hydroxide (soda lye) – aqueous	NaOH	O	+	O	+	+	+	+	+	+	O	-	O	+	-	-	O	O	O
Sodium hypochlorite (chlorine bleaching lye) – aqueous	NaOCl	-	O	O	+	-	+	+	+	O	-	O	-	+	O	O	O	O	O
Sodium iodide – aqueous	NaI	+	+	+	+	+	+	+	O	+		+	O		O	O	O	O	O
Sodium mercaptobenzothiazole – pure	$C_7H_5NS_2$	O	O	+	+	O	+		+	+					+	+	+	+	+
Sodium metabisulphite (sodium disulphite) – aqueous	$Na_2S_2O_5$	O	+	+		+	+	+	+	+	+				O	O	-	+	O
Sodium nitrate – aqueous	$NaNO_3$	+	+	+	+	+	+	+	O	O	+	+	+	+	-	-	-	+	-
Sodium nitrite – aqueous	$NaNO_2$	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+
Sodium pentachlorophenolate – aqueous	C_6Cl_5NaO	+	+	+		+	+		+	+	+				+	+	O	+	+
Sodium perborate – aqueous	$NaBO_3 \times nH_2O$	O	+	+	+	+	+	+	+	+		+	-		O	O	O	+	+
Sodium peroxodisulphate – aqueous	$Na_2S_2O_4$	O	+	+	+	+	+		+	+	-	+	-		-	-	-	+	O
Sodium phosphate – aqueous	Na_3PO_4	+	+	+	+	+	+	+	+	+	+	+			O	O	O	O	O
Sodium propionate – aqueous	CH_3CH_2COONa	+	+	+		+	+		+	+	+	+			+	+	+	+	+
Sodium silicate (soluble glass) – aqueous		+	+	+	+	+	+	+	+	+	+	+	+	+	O	O	+	+	+