



Chemical Compatibility Chart

SECTION I LIQUIDS PAGES 1- 10
SECTION II GASESPAGE 11

KEY TO ABBREVIATION

COMPATIBILITY RATINGS

+	Resistant
0	Conditionally Resistant
-	Unsatisfactory
N	No Data Available

MATERIALS

U.P.V.C	Unplasticised Polyvinyl Chloride
S.A.N	Styrene Acrylonitrile
304SS	Includes all non 316 Stainless Steel
316SS	316 Stainless Steel
EPR	Ethylene Propylene Rubber
PTFE	Polytetrafluoroethylene

CONCENTRATIONS

T.P.	Technical Purity
U.C.	Usual Commercial Concentration
10% aq	10% Aqueous Solution
SAT.	Saturated Aqueous Solution
ALL	All Concentrations

CAUTIONARY NOTE

The information in this guide has been derived from various sources and comparison with chemicals of similar composition. The suitability of any material will depend on many factors including contact time, temperature and minor solution components. The compatibility ratings are therefore intended as a general guide only. Users should test under their own operating conditions to establish the suitability of any given system.

CHEMICAL RESISTANCE

				CHEMICAL RESISTANCE																
				FILTER TUBE			HOUSING MATERIAL								SEAL MATERIAL					
				Epoxy	S Type	C & K Type	UPVC	Polypropylene	S.A.N.	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Viton A	Silicone	EPR
MEDIUM	FORMULA	CONC.N	TEMP (°C)																	
Acetaldehyde	CH3 CH0	T.P	20	0	0	-	-	0	-	-	+	-	+	+	+	+	-	-	+	+
Acetaldehyde aq.	CH3 CH0	40%	60	+	-	-	0	0	-	-	+	-	+	+	+	+	-	0	+	+
Acetic Acid	CH3 C00H	Glacial	20	-	0	+	0	+	-	-	-	+	+	+	+	-	-	-	+	+
Acetic Acid	CH3 C00H	Glacial	60	-	0	0	-	0	-	-	-	+	+	+	+	-	-	-	0	+
Acetic Acid aq.	CH3 C00H	10%	20	+	+	+	+	+	+	+	-	+	+	+	+	-	-	-	+	0
Acetic Acid aq.	CH3 C00H	10%	60	+	+	+	0	+	0	-	-	+	+	+	+	-	-	-	+	0
Acetid Anhydride	CH3C00.C0CH3	T.P	20	0	-	+	-	+	-	-	-	+	0	+	+	-	-	-	0	-
Acetid Anhydride	CH3C00.C0CH3	T.P	60	-	-	0	-	-	-	-	-	0	-	+	+	-	-	-	0	-
Acetone	CH3 C0CH3	T.P	20	0	+	0	-	+	-	0	+	0	+	+	+	+	-	-	-	+
Acetone	CH3 C0CH3	T.P	60	-	+	-	-	0	-	-	+	-	+	+	+	+	-	-	-	+
Acrylonitrile	CH2-CHCN	T.P	60	0	-	+	-	+	-	-	-	+	+	+	+	N	-	+	-	0
Aluminum Chloride aq.	A1 C13	10%	60	+	-	+	+	+	+	+	+	+	-	-	-	-	+	+	+	+
Aluminum Chloride aq.	A1 C13	Sat.	60	+	-	+	+	+	+	0	+	+	-	-	-	-	+	+	+	+
Aluminum Chloride aq.	A1 C13	Sat.	100	0	-	+	-	0	-	-	+	+	-	-	-	-	+	+	+	+
Aluminum Sulphate aq.	A12 (S04) 3	10%	60	+	-	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+
Aluminum Sulphate aq.	A12 (S04) 3	Sat.	60	+	-	+	+	+	+	+	+	+	0	+	-	-	+	+	+	+
Aluminum Sulphate aq.	A12 (S04) 3	Sat.	100	0	0	+	-	0	-	+	+	-	-	-	-	-	+	+	+	+
Ammonia aq.	NH4 0H	10%	20	+	+	+	+	+	+	N	+	+	+	+	+	-	+	0	+	+
Ammonia aq.	NH4 0H	Sat.	60	+	-	+	0	+	+	-	N	+	+	+	+	-	+	0	+	+
Ammonia aq.	NH4 0H	Sat.	100	-	-	0	-	0	-	-	N	+	+	+	+	-	0	-	+	0
Ammonium Acetate aq.	CH2 C00NH4	All	60	+	-	+	0	+	+	+	N	+	+	+	+	+	+	+	N	+
Ammonium Carbonate aq.	(NH4) 2 C03	All	60	+	-	+	0	+	+	0	N	+	+	+	+	0	-	+	+	+
Ammonium Chloride aq.	NH4 C1	10%	60	+	+	+	0	+	+	+	+	+	-	+	+	-	+	+	+	+
Ammonium Chloride aq.	NH4 C1	Sat.	60	+	+	+	+	+	+	+	+	+	-	0	+	-	+	+	+	+
Ammonium Chloride aq.	NH4 C1	Sat.	100	-	-	+	-	0	-	-	+	+	-	-	+	-	+	+	+	+
Ammonium Fluoride aq.	NH4 F	20%	20	-	-	+	+	+	N	N	N	+	-	-	+	-	+	+	+	+
Ammonium Fluoride aq.	NH4 F	20%	60	-	-	0	0	+	N	N	N	+	-	-	+	-	+	+	+	+
Ammonium Fluoride aq.	NH4 F	20%	100	-	-	+	-	-	-	-	N	+	-	-	+	-	+	-	+	-
Ammonium Nitrate	NH4 N03	10%	60	+	+	+	+	+	+	-	+	+	+	+	+	-	+	+	+	+
Ammonium Nitrate	NH4 N03	Sat.	60	+	+	+	+	+	+	-	+	+	+	+	+	-	+	+	+	+
Ammonium Nitrate	NH4 N03	Sat.	100	0	-	+	-	0	-	-	-	+	+	+	+	-	-	+	+	+
Ammonium Phosphate aq.	(NH4) 3 P04	All	60	+	+	+	+	+	+	+	N	+	+	+	-	-	+	+	+	+
Ammonium Sulphate aq.	(NH4) 2 S04	10%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ammonium Sulphate aq.	(NH4) 2 S04	Sat.	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Ammonium Sulphate aq.	(NH4) S04	Sat.	160	0	-	+	-	0	-	-	N	+	+	+	+	+	+	+	+	+
Ammonium Sulphide aq.	(NH4) 2 S	All	60	+	-	+	0	+	0	0	N	+	+	+	+	-	+	-	+	+
Ammonium Sulphide aq.	(NH4) 2 S	All	100	-	-	+	-	-	-	-	N	+	+	+	+	-	-	-	+	+
Anyl Acetate	CH3 C00C5H11	T.P	20	0	-	+	-	0	-	-	+	+	+	+	+	-	-	-	-	0
Anyl Alcohol	C5 H11 0H	T.P	60	0	-	+	0	+	N	-	N	+	+	+	0	+	+	+	-	+
Anyl Chloride	C5 H11 C1	T.P	60	0	-	+	-	0	N	-	N	+	+	+	N	N	N	+	-	-
Aniline	C6 H5 NH2	T.P	20	+	0	+	-	+	-	-	0	+	+	+	+	-	-	0	-	+
Aniline	C6 H5 NH2	T.P	60	0	0	0	-	+	-	-	-	0	+	-	-	-	-	0	-	+
Aniline aq.	C6 H5 NH2	Sat.	20	+	-	+	-	0	N	-	-	+	+	+	+	-	0	-	-	+
Aniline aq.	C6 H5 NH2	Sat.	60	+	0	0	-	0	N	-	-	0	+	+	0	-	-	-	-	+
Aniline Hydrochloride aq.	C6 H5 NH2 HC1	Sat.	20	+	0	+	0	0	N	-	N	+	+	+	-	-	0	0	0	+

CHEMICAL RESISTANCE

MEDIUM	FORMULA	CONC.N	TEMP (°C)	CHEMICAL RESISTANCE												SEAL MATERIAL				
				FILTER TUBE			HOUSING MATERIAL									SEAL MATERIAL				
				Epoxy	S Type	C & K Type	UPVC	Polypropylene	S.A.N.	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Viton A	Silicone	EPR
Aniline Hydrochloride aq.	C6 H5 NH2 HC1	Sat.	100	-	-	0	-	-	-	N	0	+	+	-	-	-	0	-	+	
Antimony Chloride aq.	SbC13	90%	20	+	0	+	+	+	+	N	-	+	0	+	-	-	+	+	N	+
Aqua Regia	HC1/HN03	U.C	20	-	-	0	0	-	-	-	-	+	-	-	-	-	-	0	-	-
Barium Hydroxide aq.	Ba(OH)2	All	60	+	0	+	+	+	N	+	+	+	+	+	-	N	+	+	+	+
Barium Salts aq.		All	60	+	0	+	+	+	N	+	+	+	-	-	0	N	+	+	+	+
Beer		U.C	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Benzaldehyde	C6 H5 CH0	T.P	60	0	0	-	-	-	N	-	0	0	+	+	+	+	-	-	-	+
Benzene	C6 H6	T.P	20	+	0	+	-	-	-	-	+	+	+	+	+	+	0	+	-	-
Benzoic Acid	C6 H5 C00H	All	20	+	0	+	+	+	+	-	0	+	+	+	+	+	+	+	0	+
Benzoic Acid aq.	C6 H5 C00H	All	60	+	-	+	0	+	+	-	-	+	+	+	+	+	+	+	-	+
Benzoic Acid aq.	C6 H5 C00H	All	100	-	-	0	0	0	0	-	0	+	+	+	+	+	+	+	-	0
Benzyl Alcohol	C6 H5 CH20H	T.P	60	+	-	+	0	0	N	0	N	+	+	+	0	+	0	+	-	0
Boric Acid	H3 B02	All	60	+	+	+	0	+	N	0	+	+	+	+	+	+	+	+	+	+
Bromine Liquid	Br2	100%	20	-	-	+	-	-	-	-	-	+	-	-	+	-	-	+	-	-
Butanediol aq.	C4 H8 (OH)2	10%	20	0	0	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+
Butanediol aq.	C4 H8 (OH)2	10%	60	-	-	+	-	0	N	0	+	+	+	+	+	+	+	+	0	+
Butanetriol aq.	C4 H7 (OH)3	All	20	0	0	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+
Butanetriol aq.	C4 H7 (OH)3	All	60	-	-	+	0	+	N	0	+	+	+	+	+	+	+	0	0	0
Butanol aq.	C4 H9 0H	All	20	0	0	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+
Butanol aq.	C4 H9 0H	All	60	-	-	+	0	+	N	0	+	+	+	+	0	+	+	+	0	+
Butyl Acetate	CH3 C00C4 H9	T.P	20	0	-	0	-	0	-	N	+	0	+	+	+	+	-	-	-	+
Butanoic Acid aq.	C3H7 C00H	20%	20	+	+	+	+	+	N	N	0	+	+	+	+	N	+	+	0	+
Butanoic Acid aq.	C3H7 C00H	T.P	20	+	+	+	-	-	N	N	-	+	+	+	+	N	-	0	-	0
Calcium Chloride aq.	Ca C12	Sat.	60	+	-	+	+	+	+	+	-	+	-	-	+	-	+	+	+	+
Calcium Chloride aq.	C1 C12	Sat.	100	-	-	+	-	0	-	+	-	+	-	-	+	-	+	+	+	0
Calcuim Hypochlorite aq.	Ca (C10)2	All	60	0	0	+	0	+	N	-	+	-	-	-	-	-	-	+	0	+
Calcuim Salts aq.		All	60	+	-	+	+	+	N	+	+	+	+	+	+	0	+	+	+	+
Carbon Disulphine	CS2	All	60	+	0	+	0	+	-	-	+	+	+	+	+	+	-	+	-	-
Carbon Tetrachloride	CC14	T.P	20	0	0	+	0	-	N	-	+	+	+	+	+	+	0	+	-	-
Carbon Tetrachloride	CC14	T.P	60	-	-	+	-	-	-	-	+	+	+	+	-	+	-	+	-	-
Cellosolve		U.C	60	0	-	+	-	-	n	-	0	+	+	+	+	+	-	-	-	+
Chloroacetic Acid	C1CH2 C00H	T.P	60	-	-	+	0	0	-	-	-	+	-	-	-	-	-	-	-	0
Chloral Hydrate aq.	C13 CH0	All	60	0	-	+	-	-	N	-	-	-	N	N	-	-	-	0	-	0
Chlorobenzene	C6 H5 C1	T.P	20	0	-	+	-	+	-	-	+	+	+	+	+	-	-	-	-	0
Chloric Acid aq.	HC103	10%	60	0	-	0	0	0	N	-	N	0	-	-	-	-	-	+	-	+
Chloric Acid aq.	HC103	10%	100	-	-	0	-	-	N	-	N	0	-	-	-	-	-	-	N	0
Chlorine aq.	C12	Sat.	20	+	-	+	0	-	N	-	-	+	-	-	-	-	-	-	-	+
Chlorine Liquid	C12	100%	20	N	N	N	-	-	N	-	-	N	N	N	+	-	-	+	N	+
Chloroform	CHC13	T.P	20	-	-	+	-	0	-	-	-	+	+	+	-	+	-	+	-	0
Chromic Acid aq.	Cr03 + H20	50%	20	-	-	+	+	0	+	-	-	+	-	-	-	-	-	+	-	0
Cider		U.C	20	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+
Citric Acid aq.	C6 07 H8	10%	60	+	+	+	0	+	+	+	0	+	+	+	+	-	+	+	+	+
Copper Acetate aq.	(CH3 C00)2 Cu	10%	60	+	-	+	-	-	+	+	-	+	+	-	-	0	-	-	-	+
Copper Nitrate aq.	Cu (N03)2	30%	60	+	-	+	0	0	+	+	0	+	+	+	-	0	+	+	+	+
Copper Nitrate aq.	Cu (N03)2	30%	100	+	0	+	+	-	+	+	-	+	+	-	-	+	+	+	+	+

CHEMICAL RESISTANCE

MEDIUM	FORMULA	CONC.N	TEMP (°C)	FILTER TUBE			HOUSING MATERIAL								SEAL MATERIAL					
				Epoxy	S Type	C & K Type	UPVC	Polypropylene	S.A.N.	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Viton A	Silicone	EPR
Copper Sulphate aq.	Cu SO4	Sat.	60	-	-	+	-	-	-	-	+	+	+	-	-	+	+	+	+	
Copper Sulphate aq.	Cu SO4	Sat.	100	-	-	+	-	-	-	-	+	+	+	-	-	+	+	+	+	
Cresols aq.	CH3 C6 H4 OH	All	20	0	-	+	0	+	N	-	-	+	+	+	+	-	+	-	-	
Crotonaldehyde	CH3 CH-CH.CH0	T.P	20	-	-	+	-	-	N	-	N	+	+	+	+	N	+	+	-	
Cyclohexane	C6 H12	T.P	20	+	0	+	+	+	-	+	+	+	+	+	+	+	+	+	0	
Cyclohexanol	C6 H11 OH	T.P	20	+	0	+	-	+	N	+	0	+	+	+	+	+	+	+	0	
Cyclohexanone	C5 H10 C0	T.P	20	-	-	+	-	+	N	-	+	+	+	+	+	-	-	-	0	
Decalin	C10 H18	T.P	20	+	+	+	+	0	N	N	+	+	+	+	+	-	+	-	-	
Decalin	C10 H18	T.P	60	-	-	+	0	0	N	N	+	+	+	+	+	-	+	-	-	
Detergent aq.		U.C	60	+	+	+	0	+	-	+	+	+	+	+	+	+	+	+	+	
Dibutyl Ether	C4 H9-0-C4H9	T.P	20	+	0	+	0	0	N	-	+	+	+	+	+	-	0	-	0	
Dibutyl Ether	C4 H9-0-C4H9	T.P	60	-	-	0	-	-	N	-	0	+	+	+	+	-	-	-	0	
Dibutyl Phthalate	C6H4(C00C4H9)2	T.P	20	+	+	+	-	+	N	0	+	+	+	+	+	-	-	-	+	
Dibutyl Phthalate	C6H4(C00C4H9)2	T.P	60	+	-	0	-	0	N	-	+	0	+	+	+	-	-	-	0	
1,2 Dichloroethane	C1 CH2 CH2C1	T.P	20	0	-	+	-	0	N	-	+	+	+	+	+	0	+	-	-	
1,2 Dichloroethylene	C1 CH – CHC1	T.P	20	0	-	+	-	0	N	-	+	+	+	+	+	0	+	-	-	
Dichlorobenzene	C6 H4 C12	T.P	20	0	-	+	-	0	N	-	+	+	+	+	+	0	+	-	-	
Diesel Oil		T.P	20	+	+	+	0	+	N	+	+	+	+	+	+	+	+	-	-	
Diesel Oil		T.P	60	+	-	+	0	0	N	+	+	+	+	+	+	+	+	-	-	
Dimethyl Formanide	HC0N (DH3)2	T.P	60	0	-	0	-	+	N	-	+	0	+	+	+	-	-	0	+	
Dimethylamine	CH3 –NH –CH3	T.P	60	0	-	0	-	0	N	-	N	0	+	+	-	N	-	-	0	
Diethyl Phthalate	C6H4(C00C8H17)2	T.P	60	+	0	+	-	0	N	0	+	+	+	+	+	-	-	0	+	
Dioxan	C4 H8 02	T.P	60	-	-	0	-	0	N	-	+	0	+	+	N	N	-	-	+	
Diothyl Ether	C2 H5 0C2 H5	T.P	20	0	-	+	-	+	N	-	+	+	+	+	+	-	-	-	0	
Ethyl Acetate	CH3 C00 C2 H5	T.P	20	0	+	+	-	0	-	N	+	+	+	+	+	-	-	+	0	
Ethyl Acetate	CH3 C00 C2 H5	T.P	60	-	-	0	-	0	-	N	+	0	+	+	+	-	-	0	0	
Ethanol aq.	C2 H5 OH	All	20	+	+	+	+	+	0	-	+	+	+	+	0	+	+	+	+	
Ethanol aq.	C2 H5 OH	96%	60	0	0	+	0	+	0	-	0	+	+	+	+	+	+	+	+	
Ethylene Diamine	NH2CH2CH2NH	T.P	60	0	+	-	-	+	-	N	N	-	-	0	-	N	0	-	+	
Ethylene Glycol	H0 CH2 CH2OH	T.P	20	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	
Ethylene Glycol	H0 CH2 CH2OH	T.P	60	+	+	+	-	+	+	+	+	+	+	+	+	-	+	+	+	
Ethylene Oxide	0 (CH2) 2	T.P	20	+	-	+	-	-	-	N	N	+	+	+	+	-	-	-	0	
Fatty Acids	R COOH	T.P	60	+	0	+	+	0	+	N	+	+	+	+	+	0	+	N	0	
Ferric Chloride aq.	Fe C13	Sat.	60	0	-	+	+	+	+	+	-	+	-	-	-	+	+	+	+	
Ferric Chloride aq.	Fe C13	Sat.	100	-	-	+	-	0	-	-	-	+	-	-	-	+	+	0	+	
Ferric Chloride aq.	Fe C13	10%	60	+	-	+	0	+	+	+	-	+	-	-	-	+	+	+	+	
Ferrous Sulphate aq.	Fe SO4	10%	60	+	0	+	+	+	+	+	0	+	+	+	-	+	+	+	+	
Ferrous Sulphate aq.	Fe SO4	10%	100	0	-	+	-	+	-	-	0	+	+	+	-	+	+	+	+	
Formaldehyde aq.	HCH0	10%	60	+	-	+	+	+	+	+	0	+	+	+	+	+	+	+	+	
Formaldehyde aq.	HCH0	40%	60	+	-	+	+	+	+	+	0	+	+	+	+	+	0	0	+	
Formamide aq.	HCONH2	T.P	60	+	-	+	+	+	N	-	N	+	+	+	+	+	0	N	+	
Formic Acid	HC00H	T.P	20	+	+	+	+	+	+	-	-	+	+	+	-	-	-	+	+	
Formic Acid	HC00H	T.P	60	+	0	+	-	+	+	-	-	+	0	+	-	-	-	+	+	
Formic Acid aq.	HC00H	50%	60	+	0	+	0	+	+	0	-	+	-	+	-	0	0	0	0	
Freon 12	CF2C12	100%	20	+	0	+	+	-	N	N	+	+	+	+	+	0	0	-	0	

				CHEMICAL RESISTANCE																
				FILTER TUBE			HOUSING MATERIAL									SEAL MATERIAL				
				Epoxy	S Type	C & K Type	UPVC	Polypropylene	S.A.N.	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Viton A	Silicone	EPR
MEDIUM	FORMULA	CONC.N	TEMP (°C)																	
Linseed Oil		T.P	60	+	+	+	-	+	N	+	+	+	+	+	+	+	-	+	+	-
Linseed Oil		T.P	100	+	+	+	-	+	N	-	+	+	+	+	+	+	-	N	0	-
Lubricating Oil	Mineral	T.P	20	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	-	-
Lubricating Oil	Mineral	T.P	60	+	+	+	0	0	N	+	+	+	+	+	+	+	+	+	-	-
Lubricating Oil	Mineral	T.P	100	+	0	+	-	-	N	-	+	+	+	+	+	+	+	+	-	-
Lubricating Oil	Phosphate Ester	T.P	60	0	-	+	-	-	N	N	N	+	+	+	N	N	0	+	-	-
Magnesium Chloride aq	MgCl2	10%	20	+	+	+	+	+	N	+	+	+	+	+	+	-	+	+	+	+
Magnesium Chloride aq	MgCl2	10%	60	+	+	+	+	+	N	+	+	+	+	+	+	-	+	+	+	+
Magnesium Chloride aq	MgCl2	Sat.	20	+	+	+	+	+	N	+	+	+	+	+	+	-	+	+	+	+
Magnesium Chloride aq	MgCl2	Sat.	60	+	+	+	+	+	N	+	+	+	+	+	+	-	+	+	+	+
Magnesium Chloride aq	MgCl2	Sat.	100	0	-	+	-	0	N	-	+	+	+	+	+	-	+	+	+	+
Magnesium Sulphate	MgSO4	10%	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Magnesium Sulphate	MgSO4	10%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Magnesium Sulphate	MgSO4	Sat.	20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Magnesium Sulphate	MgSO4	Sat.	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Magnesium Sulphate	MgSO4	Sat.	100	0	-	+	+	+	N	-	+	0	+	+	N	+	+	N	+	
Maleic Acid aq.	H00CCHCHC00H	Sat.	20	+	+	+	+	+	N	-	+	0	+	+	N	+	+	N	+	
Maleic Acid aq.	H00CCHCHC00H	Sat.	60	+	+	+	+	+	N	-	+	-	+	+	N	0	+	N	0	
Maleic Acid aq.	H00CCHCHC00H	Sat.	100	-	-	+	-	+	-	N	-	+	-	+	N	-	+	N	-	
Menthol	C10 H19 OH	T.P	20	+	+	+	0	+	N	+	N	+	+	+	+	+	+	+	+	+
Menthol	C10 H19 OH	T.P	60	+	+	+	-	0	N	0	N	+	+	+	+	+	0	+	+	+
Mercury	Hg	T.P	20	+	+	+	0	+	+	+	+	+	+	+	-	-	+	+	+	+
Mercury	Hg	T.P	60	+	+	+	0	+	+	-	+	+	+	+	-	-	+	+	+	+
Methanol	CH3 OH	T.P	20	+	+	+	0	+	N	-	0	+	+	+	+	+	+	+	+	+
Methanol	CH3 OH	T.P	60	+	+	+	-	+	N	-	-	+	+	+	+	+	+	-	+	+
Methylamine aq.	CH3 NH2	30%	20	+	+	-	0	+	N	-	N	-	+	+	0	N	-	+	N	+
Methyl Ethyl Ketone	CH3 COC2 H5	T.P	20	-	-	-	-	+	N	-	-	-	+	+	+	+	-	-	-	+
Methylene Chloride	CH2 C12	T.P	20	-	-	0	-	-	-	-	-	0	+	+	+	+	-	+	-	-
Milk		U.C	20	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+
Mineral Oil			20	+	+	+	0	+	N	+	+	+	+	+	+	+	+	+	-	-
Mineral Oil			60	+	+	+	0	0	N	0	+	+	+	+	+	+	+	+	-	-
Mixed Acids	50%H2S04.50%HN03	20	-	-	0	-	-	N	-	-	0	-	-	-	-	-	+	-	0	
Mixed Acids	30%H2S04.70%H3P04	20	-	-	0	+	0	N	-	-	0	-	-	-	-	-	+	-	0	
Motor Oils		U.C	60	+	+	+	0	0	N	0	+	+	+	+	+	+	+	+	-	-
Naphthalene	C10 H8		20	+	+	+	-	+	-	+	+	+	+	+	+	N	0	+	-	-
Naphthalene	C10 H8		60	0	0	+	-	0	-	0	N	+	+	+	+	N	-	+	-	-
Nickel Salts aq.		10%	60	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+
Nickel Sulphate aq.	NiSO4	10%	60	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+
Nickel Sulphate aq.	NiSO4	Sat.	60	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+
Nickel Sulphate aq.	NiSO4	Sat.	100	+	+	+	-	+	N	+	+	+	+	+	+	+	-	+	+	-
Nicotine aq.		U.C	20	+	+	+	+	N	N	N	N	+	+	+	+	N	+	+	N	+
Nitric Acid aq.	HN03	30%	20	-	-	+	+	+	-	+	-	+	-	-	-	-	-	+	-	+
Nitric Acid aq.	HN03	30%	60	-	-	+	+	+	-	-	-	+	-	-	-	-	+	+	-	+
Nitric Acid aq.	HN03	40%	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
Nitric Acid aq.	HN03	70%	20	-	-	+	+	-	-	-	-	+	-	-	-	-	-	0	-	-

CHEMICAL RESISTANCE

MEDIUM	FORMULA	CONC.N	TEMP (°C)	CHEMICAL RESISTANCE															
				FILTER TUBE			HOUSING MATERIAL									SEAL MATERIAL			
				Epoxy	S Type	C & K Type	UPVC	Polypropylene	S.A.N.	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Viton A	Silicone
Potassium Perchlorate aq.	KC104	1%	60	+	0	+	0	+	N	+	+	+	+	+	-	-	+	+	+
Potassium Permanganate aq.	KMnO4	6%	60	+	0	+	+	+	N	+	+	+	+	+	+	-	+	+	+
Propane Liquid	C3 H8	100%	20	+	+	+	+	0	N	-	N	+	+	+	+	+	+	-	-
Propanol (iso & n)	C3 H7 OH	T.P	60	+	+	0	0	+	N	-	+	0	+	+	+	+	0	+	+
Propanic Acid	C2 H5 C00H	T.P	20	+	+	+	+	+	N	N	+	+	0	+	+	-	-	+	N
Propanic Acid	C2 H5 C00H	T.P	60	+	+	+	0	0	N	N	0	+	-	-	+	-	-	+	N
Pyridine	C5 H5 C00H	All	20	+	0	0	-	0	-	-	+	0	+	+	-	-	-	-	0
Pyridine	C5 H6 C00H	All	60	0	-	-	-	0	-	-	0	-	+	+	-	-	-	-	-
Sea Water			60	+	+	+	+	+	+	+	+	+	+	0	-	+	+	+	+
Sea Water			100	0	-	+	-	-	-	-	+	+	+	+	-	-	+	+	+
Silicic Acid aq.	H2 SiO3	All	60	0	-	N	+	+	+	-	-	N	O	+	-	-	+	+	N
Silicone Oil		T.P	20	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	0
Silicone Oil		T.P	60	+	+	+	-	+	-	+	+	+	+	+	+	+	+	+	-
Silver Nitrate aq.	Ag NO3	8%	60	+	0	+	0	+	+	-	N	+	+	+	-	-	+	+	+
Silver Nitrate aq.	Ag NO3	8%	100	-	-	+	-	-	-	-	N	+	+	+	-	-	0	0	+
Soap Solution aq.		Conc.	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium Acetate aq.	CH3 C00Na	10%	60	+	-	+	-	-	N	+	-	+	+	+	-	-	0	-	-
Sodium Bicarbonate aq.	Na HC03	Sat.	60	+	0	+	+	+	N	+	+	+	+	+	-	-	+	+	+
Sodium Bisulphite aq.	Na HS03	10%	60	+	0	+	+	+	N	+	+	+	+	+	0	-	-	-	+
Sodium Bisulphite aq.	Na HS03	Sat.	60	+	0	+	+	+	N	+	+	+	+	+	-	-	-	0	+
Sodium Carbonate aq.	Na2 C03	Sat.	60	+	-	+	+	+	+	+	+	+	0	+	-	-	+	+	+
Sodium Chlorate aq.	Na C103	10%	60	+	0	+	+	+	N	+	+	+	+	+	+	-	0	+	N
Sodium Chlorate aq.	Na C103	Sat.	60	+	0	+	0	+	N	+	+	+	+	+	+	-	-	+	N
Sodium Chlorate aq.	Na C103	Sat.	100	-	-	+	-	0	N	-	+	+	+	+	+	-	-	0	N
Sodium Chloride aq.	Na C1	10%	60	+	0	+	0	+	N	+	+	+	+	+	+	-	+	+	+
Sodium Chloride aq.	Na C1	Sat.	60	+	0	+	0	+	N	+	+	+	+	+	+	-	+	+	+
Sodium Chloride aq.	Na C1	Sat.	100	-	-	+	-	+	N	-	+	+	+	+	+	-	+	+	+
Sodium Chloride aq.	Na C102	10%	20	+	+	+	+	0	N	-	N	+	0	+	+	-	-	+	N
Sodium Chloride aq.	Na C102	10%	60	+	0	+	0	0	N	-	N	+	-	+	+	-	-	+	N
Sodium Hydroxide aq.	Na OH	10%	20	+	-	+	N	+	N	-	+	+	+	+	-	-	+	+	+
Sodium Hydroxide aq.	Na OH	10%	60	-	-	+	0	+	N	-	+	+	+	+	-	-	+	+	+
Sodium Hydroxide aq.	Na OH	10%	100	-	-	0	N	N	N	-	+	0	+	+	-	-	N	N	N
Sodium Hydroxide aq.	Na OH	46%	60	-	-	0	0	+	N	-	0	0	+	+	-	-	+	+	+
Sodium Hypochlorite aq.	Na OC1	10%	20	0	0	+	+	0	N	+	-	+	0	+	-	-	-	+	+
Sodium Hyposulphite aq.	Na2 S2 O4	10%	20	+	+	+	+	+	N	+	-	+	+	+	+	-	0	+	+
Sodium Hyposulphite aq.	Na2 S2 O4	10%	60	+	0	+	0	+	N	+	+	+	+	+	+	+	+	+	+
Sodium Nitrate aq.	Na NO3	Sat.	60	+	0	+	0	+	N	-	-	+	+	+	+	-	-	+	+
Sodium Nitrate aq.	Na NO2	Sat.	60	+	-	+	0	0	N	+	+	+	+	+	+	-	-	+	N
Sodium Phosphate aq.	Na3 PO4	Sat.	60	+	-	+	+	+	N	+	+	+	+	+	-	-	+	+	+
Sodium Silicate aq.	Na2 SiO3	All	60	+	+	+	+	+	-	+	+	+	+	+	0	+	+	+	N
Sodium Sulphate aq.	Na2 SO4	Sat.	60	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Sodium Sulphate aq.	Na2 S	10%	60	+	0	+	+	+	+	+	+	+	+	+	-	-	+	-	+
Sodium Sulphate aq.	Na2 S	Sat.	60	+	-	+	+	+	+	+	+	+	+	+	-	-	+	-	+
Sodium Sulphate aq.	Na2 S	Sat.	100	-	-	+	-	-	0	-	N	+	-	-	-	-	0	-	+
Sodium Thiosulphate aq.	Na2 S2 O3	10%	60	+	0	+	+	+	N	+	+	+	+	+	+	+	-	+	+

CHEMICAL RESISTANCE

MEDIUM	FORMULA	CONC.N	TEMP (°C)	FILTER TUBE			HOUSING MATERIAL									SEAL MATERIAL					
				Epoxy	S Type	C & K Type	UPVC	Polypropylene	S.A.N.	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Viton A	Silicone	EPR	
Starch aq.		All	60	+	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	+	+
Stearic Acid aq.	C17 H35 C00H	T.P	60	+	+	+	+	0	N	0	+	+	+	+	+	+	+	+	+	+	+
Sulphur Dioxide Liquid	S02	T.P	60	N	N	+	-	N	-	-	-	+	+	+	+	-	+	+	0	+	+
Sulpher Dioxide aq.	S02	All	60	+	0	+	0	+	-	-	-	+	-	-	-	-	+	0	0	+	+
Sulphuric Acid aq.	H2 S04	10%	20	+	+	+	+	+	-	+	+	-	-	-	-	-	+	+	+	+	+
Sulphuric Acid aq.	H2 S04	10%	60	+	+	+	0	+	-	+	-	+	-	-	-	-	-	+	0	+	+
Sulphuric Acid aq.	H2 S04	10%	100	-	-	+	-	-	-	-	-	+	-	-	-	-	-	N	-	N	N
Sulphuric Acid aq.	H2 S04	40%	60	-	-	+	0	+	-	+	-	+	-	-	-	-	-	+	-	+	+
Sulphuric Acid aq.	H2 S04	70%	20	-	-	+	+	+	-	+	-	+	-	-	-	-	-	+	-	+	+
Sulphuric Acid aq.	H2 S04	70%	60	-	-	+	0	0	-	+	-	+	-	-	-	-	-	+	-	0	+
Sulphuric Acid aq.	H2 S04	96%	60	-	-	+	0	-	-	-	-	+	-	-	-	-	-	-	-	-	-
Tannic Acid aq.		10%	60	+	+	+	0	N	-	-	+	+	+	+	+	+	0	+	0	0	0
Tetrachloroethane	C12 CH.CHC12	T.P	20	-	-	+	-	0	-	-	+	+	+	+	+	-	+	-	-	-	-
Tetrachloroethane	C12 CH.CHC12	T.P	60	-	-	+	-	-	-	-	0	+	+	+	0	+	-	0	-	-	-
Tetrahydrofuran	0 (CH2)4	T.P	20	+	0	0	-	0	N	-	+	0	+	+	+	+	+	-	-	-	-
Tetrahydrofuran	0 (CH2)4	T.P	60	-	-	-	-	-	N	-	+	-	+	+	+	+	0	-	-	-	-
Thionyl Chloride	S0C12	T.P	20	-	-	N	-	-	N	-	-	N	+	+	-	-	0	-	-	-	+
Thiophen	C4 H4 S	T.P	20	+	0	N	-	0	N	-	N	N	+	+	+	+	-	-	-	-	-
Thiophen	C4 H4 S	T.P	60	0	-	N	-	0	N	-	N	N	+	+	+	+	-	-	-	-	-
Tin (II) Chloride aq.	Sn C12	10%	60	+	+	+	0	+	N	+	-	+	0	+	-	-	+	+	N	+	+
Toluene	C6 H5 CH3	T.P	20	0	-	+	-	+	N	-	+	+	+	+	+	+	0	-	-	-	-
Trichlorethylene	C12C=CHC1	T.P	20	0	-	-	-	-	N	-	0	+	+	+	+	+	-	+	-	0	0
Trichloroacetic Acid aq.	C13 C.C00H	50%	60	-	-	-	-	+	N	-	-	-	-	-	-	-	-	-	N	0	0
Trichloroacetic Acid aq.	C13 C.C00H	T.P	20	+	0	0	+	+	N	-	-	0	-	-	-	-	0	-	N	0	0
Trichloroacetic Acid aq.	C13 C.C00H	T.P	60	-	-	-	-	0	N	-	-	-	-	-	-	-	-	-	N	-	-
Triethanolamine	N(CH2CH2OH)3	T.P	20	+	+	0	N	N	N	-	+	0	+	+	-	-	+	+	-	0	0
Turpentine Oil		T.P	60	+	0	+	0	-	N	0	N	+	+	+	+	+	+	+	-	-	-
Urea aq.	NH2 C0NH2	10%	60	+	-	+	0	+	+	+	+	+	+	+	+	+	+	+	N	+	+
Urine			60	+	+	+	0	+	N	-	+	+	+	+	N	N	+	+	N	+	+
Vinegar		U.C	60	+	+	+	0	+	+	0	0	+	+	+	-	-	0	-	+	+	+
Vinegar		U.C	100	-	-	+	-	-	-	-	-	+	+	+	-	-	-	-	+	+	+
Vinyl Acetate	CH2=CHC00CH3	T.P	20	0	+	+	-	N	N	N	N	+	+	+	+	N	+	+	-	+	+
Water (distilled)	H20		20	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+
Water (distilled)	H20		60	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+
Water (distilled)	H20		100	0	-	+	-	+	-	+	-	+	+	+	-	-	+	+	+	+	+
Wine		U.C	20	+	+	+	+	+	+	+	+	+	+	+	-	-	+	+	+	+	+
Xylene	C6 H4 (CH3)2	T.P	20	0	0	+	-	+	N	-	+	+	+	+	+	+	0	0	-	-	-
Xylenol	C6H3(CH3)2OH	T.P	20	+	+	+	-	+	N	-	-	+	+	+	+	+	-	0	-	-	-
Zinc Chloride aq.	ZnC12	10%	60	+	+	+	0	+	N	+	-	+	+	+	-	-	+	+	N	+	+
Zinc Chloride aq.	ZnC12	Sat.	60	+	0	+	+	+	N	0	-	+	-	-	-	-	+	+	N	+	+
Zinc Chloride aq.	ZnC12	Sat.	100	-	-	+	N	0	N	-	-	+	-	-	-	-	+	+	N	+	+
Zinc Sulphate aq.	ZnS04	Sat.	60	+	0	+	+	+	N	+	+	+	+	+	-	-	+	+	+	+	+

Section II - GASES

CHEMICAL RESISTANCE

MEDIUM	FORMULA	CONC.N	TEMP °C	FILTER TUBE				HOUSING MATERIAL								SEAL MATERIAL			
				Epoxy	S Type	C & K Type	Polypyrrolene	Polycarbonate	Nylon	Kynar	304 SS	316 SS	Aluminum	Brass	Nitrile	Silicone	EPR	PTFE	
Acetylene	C2 H2	T.P	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Air			100	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Air			200	-	+	-	-	-	-	-	+	+	+	+	0	+	0	+	
Air			300	-	+	-	-	-	-	-	+	+	0	0	-	-	-	+	
Air			500	-	+	-	-	-	-	-	+	+	-	-	-	-	-	-	
Ammonia	NH3	T.P	60	+	+	+	+	N	+	+	+	+	+	-	-	+	+	+	
Argon	Ar	T.P	60	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	
Bromine	Br2	T.P	60	-	-	+	-	-	-	+	-	-	-	-	-	-	-	+	
Butane	C4 H10	T.P	20	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	
Carbon Dioxide dry	C02	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carbon Dioxide dry	C02	100%	80	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Carbon Dioxide moist	C02	All	60	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	
Carbon Dioxide moist	C02	All	100	+	+	+	0	-	+	+	+	+	+	+	+	0	+	+	
Carbon Monoxide	C0	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Chlorine dry	C12	100%	20	+	+	+	0	-	-	+	+	+	-	-	-	0	-	+	
Chlorine moist	C12	5%	20	-	-	+	-	-	-	+	-	-	-	-	-	-	-	+	
Ethane	C2 H6	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	
Ethylene	C2 H4	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	
Fluorine dry	F2	100%	20	-	-	+	-	-	-	+	-	-	-	-	-	-	-	+	
Fluorine dry	F2	100%	60	-	-	+	-	N	-	+	-	-	-	-	-	-	-	+	
Helium	He	T.P	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Hydrogen Chloride moist	HC1	All	60	+	+	+	+	-	-	+	-	-	-	-	-	-	+	+	
Hydrogen	H2	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	
Hydrogen	H2	100%	100	+	+	+	0	+	+	+	+	+	+	+	+	-	+	+	
Hydrogen Sulphide dry	H2S	100%	60	+	+	+	+	0	0	+	+	+	+	+	-	-	+	+	
Krypton	Kr	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Methane	CH4	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	-	-	+	
Methyl Bromide	CH3 Br	T.P	20	-	+	+	-	-	-	+	+	+	+	N	0	-	0	+	
Methyl Chloride	CH2 Cl	T.P	20	-	+	+	-	-	-	+	+	+	-	N	-	-	-	+	
Natural Gas		U.C	60	+	+	+	+	+	+	+	+	+	+	+	+	+	-	+	
Neon	Ne	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nitrogen	N2	100%	60	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Nitrous Gases	NOx	All	20	+	+	+	0	-	N	+	-	-	-	N	-	-	+	+	
Nitrous Gases	NOx	All	60	+	+	+	-	-	N	+	-	-	-	N	-	-	-	+	
Oleum	SO3	All	20	+	+	-	-	-	-	-	-	-	-	-	-	-	-	+	
Oxygen	O2	All	60	+	+	+	-	+	+	+	+	+	+	N	+	+	+	+	
Ozone	O3	2%	20	+	+	+	0	+	+	+	+	+	+	N	-	+	+	+	
Ozone	O3	20%	60	+	+	+	0	0	N	+	+	+	+	N	-	+	+	+	
Propane	C3 H8	100%	20	+	+	+	+	+	+	+	+	+	+	+	+	-	+	+	
Sulphur Dioxide	S02	All	60	+	+	+	+	-	-	+	+	+	+	+	0	0	+	+	
Xenon	Xe	100%	60	+	+	+	+	-	+	+	+	+	+	+	+	+	+	+	

