

Code
 U - Unaffected
 S - Swells
 W - Slight swelling

A - Slight attack
 F - Falls

Notes
 1. Consideration should be given to stress cracking with these materials.
 2. According to grade.

3. The information given is compiled from various publications, but it should be understood that some data is based on swelling tests over long and short periods. For any particular application it is desirable to check against service conditions.

Temperature °C	Acetals		Acrylics		Cellulose acetate	Cellulose acetate butyrate	Urea	Amino Melamine	Poly-carbonate	Cellulose nitrate	Epoxies	Ethyl cellulose	P.T.F.E.	P.C.T.F.E.	Nylon-6	Nylon-11	Nylon-66	Phenolics	Polyesters	Polythene low density	Polythene high density	Polyurethanes elastomers	Polystyrene	Polyvinyl chloride rigid	Polyvinylidene chloride	Polyvinyl acetate	Polyethyl alcohol	Polypropylene	Furan resin	Poly-chloroprene	Chloro-sulphonated polyethylene	
	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60		
Calcium bisulphite																																
Calcium carbonate																																
Calcium chloride																																
Calcium hypochlorite soln.																																
Calcium nitrate, 50%																																
Calcium sulphate																																
Calcium phosphate																																
Camphor oil																																
Carbon disulphide																																
Carbon dioxide, 100% dry																																
Carbon dioxide, 100% wet																																
Carbon dioxide, cold sat. soln.																																
Carbon monoxide																																
Carbon tetrachloride																																
Castor oil																																
Chloroacetic acid																																
Chloric acid, 1-20% soln.																																
Chlorine, 100% dry gas																																
Chlorine, moist gas																																
Chlorine, liquid																																
Chlorine, water																																
Chlorobenzene																																
Chloroform																																
Chlorosulphonic acid, 50%																																
Chlorosulphonic acid, 100%																																
Chlorosulphonic acid																																
Chroma alum																																
Chromic acid, 20%																																
Chromic acid, 50%																																
Cider																																
Citric acid																																
Coconut alcohols																																
Copper chloride																																
Copper cyanide																																
Copper fluoride																																
Copper nitrate																																
Copper sulphate																																
Cotton seed oil																																
Cresol																																
Cresylic acids																																
Crotonaldehyde																																
Cuprous chloride																																
Cupric fluoride																																
Cupric nitrate																																
Cupric sulphate																																
Cyclohexanol																																
Cyclohexanon																																
Detergents																																
Dextrine																																
Developers, photographic																																
Dextrose																																
Diazo salts																																
Dibutyl phthalate																																
Diethylene glycol																																
Diocetyl phthalate																																
Diethyl ether																																
Disodium phosphate																																
Ethyl acetate																																
Ethyl acrylate																																
Ethyl butyrate																																
Ethyl chloride																																
Ethylene chloride																																
Ethylene dichloride																																
Ethylene glycol																																
Ethylene oxide																																
Fatty acids																																
Ferric chloride																																
Ferric nitrate																																
Ferric sulphate																																
Ferrous chloride																																
Ferrous sulphate																																
Fluorine																																
Fluosilicic acid, 32%																																
Formaldehyde, 40%																																
Formic acid, 50%																																
Formic acid, 100%																																
Fruit pulp																																
Furfuryl alcohol																																

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	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60	20	60		
Glucose																																
Glycerine																																
Glycol																																
Glycolic acid, 30%																																
Grape sugar, sat.																																
Hydrobromic acid, 50%																																
Hydrochloric acid, 50%																																
Hydrochloric acid, 100%																																
Hydrocyanic acid																																
Hydrogen																																
Hydrofluoric acid, 40%																																
Hydrofluoric acid, 60%																																
Hydrofluoric acid, 100%																																
Hydrogen bromide 10%																																
Hydrogen chloride, gas, dry																																
Hydrogen peroxide, 30%																																
Hydrogen peroxide, 90%																																
Hydrogen sulphide																																
Hydroxylamine sulphate																																
Hypochlorous acid																																
Kerosene																																
Ketones																																
Lactic acid, 10%																																
Lactic acid, 90%																																
Lauric acid																																
Lead acetate																																
Lead tetraethyl																																
Linoleic acid																																
Linseed oil																																
Magnesium carbonate																																
Magnesium chloride																																
Magnesium sulphate																																
Magnesium hydroxide																																
Magnesium nitrate																																
Maleic acid																																
Mercuric chloride																																
Mercuric cyanide																																
Mercurous nitrate																																
Mercury																																
Methyl bromide																																
Methyl chloride																																
Methyl methacrylate monomer																																
Methylene chloride																																
Mineral oils																																
Molasses, comm.																																
Naphtha																																
Naphthalene																																
Nickel chloride																																
Nickel nitrate																																
Nickel sulphate																																
Nitric acid, 25%																																
Nitric acid, 50%																																
Nitric acid, 95%																																
Nitro benzene																																
Nitrous oxide																																
Oils and fats, vegetable																																
Oleic acid																																
Oxalic acid																																
Oxygen																																
Ozone																																
Palmitic acid																																
Perchloric acid, 70%																																
Petrol, aromatic free																																
Petrol/Benzene mixtures																																
Phenol, 90%																																
Phenythydrazine																																
Phenythydrazine hydrochloride																																
Phosgene gas, 100%																																
Phosgene liquid																																
Phosphoric acid, 30%																																
Phosphoric acid, 90%																																
Phosphorus pentoxide																																
Phosphorus trichloride																																
Picric acid, 1%																																
Potassium bicarbonate																																
Potassium bichromate																																
Potassium borate, 1%																																

