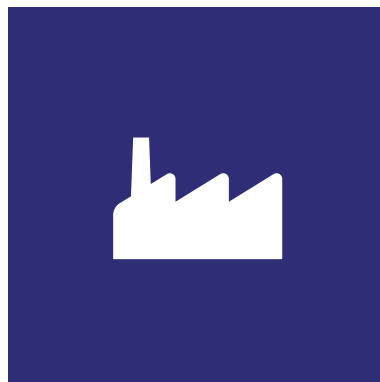
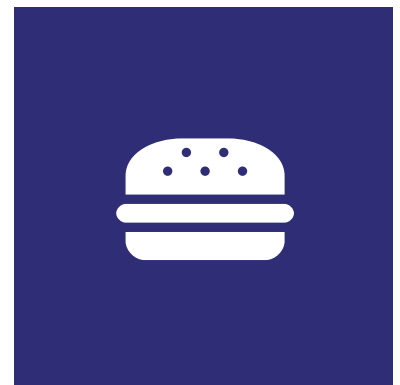
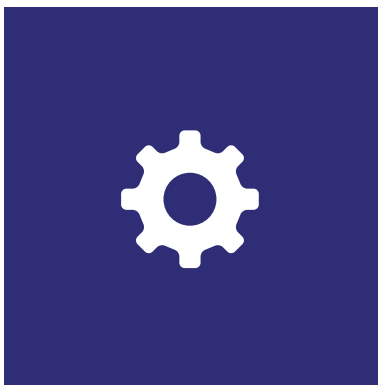


# Chemical Resistance Chart



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Revision 2

# Chemical Resistance Chart

Chemical	Glove Material		
	Nitrile	Latex	Vinyl
Acetaldehyde: acetic aldehyde	Not recommended	Good	Not recommended
Acetic acid 50%	Fair	Excellent	Excellent
Acetic acid, glacial	Fair	Good	Fair
Acetic anhydride	Fair	Good	No Information
Acetone	Not recommended	Fair	Not recommended
Acetonitrile	Fair	Fair	No Information
Acrylic acid	Good	Good	No Information
Alcoholic beverages	Excellent	Excellent	Excellent
Ammonium acetate	Excellent	Excellent	Excellent
Ammonium carbonate	Excellent	Excellent	Excellent
Ammonium chloride	Excellent	Excellent	Excellent
Ammonium concentrate	Good	Excellent	Excellent
Ammonium fluoride 30-70%	Excellent	Excellent	No Information
Ammonium hydroxide 30-70%	Excellent	Excellent	No Information
Ammonium hydroxide <30%	Excellent	Excellent	No Information
Ammonium nitrate	Excellent	Excellent	Excellent
Amylic Alcohol	Good	Fair	Fair
Aniline	Fair	Not recommended	Fair
Animal Fats	Excellent	Fair	Good
Asphalt	Excellent	Not recommended	Fair
Aqua Regia	Fair	Fair	No Information
AZT	No Information	Good	No Information
<b>Beet</b>	Excellent	Excellent	Excellent
Benzaldehyde: benzoic aldehyde	Fair	Not recommended	Not recommended
Benzene	Fair	Not recommended	Not recommended
Benzyl alcohol	Fair	Fair	Good
Bleach	Excellent	Good	Good
Borax	Excellent	Excellent	Excellent
Boric acid	Excellent	Good	No Information
Bromopropionic acid	Fair	Good	No Information
Brake fluid: lookheed	Excellent	Fair	Good
Bromides	Excellent	Fair	Fair
Butoxyethanol	Excellent	Good	Fair
Butter	Excellent	Not recommended	Fair
Butyle acetate	Good	Not recommended	Not recommended
Butyle cellusolve	Good	Good	No Information
Calcium chloride	Excellent	Excellent	Excellent
Calcium hydroxide	Excellent	Excellent	Excellent
Calcium hypochloride	Excellent	Excellent	Excellent
Calcium nitrate	Excellent	Excellent	Excellent
Calcium oxide	Excellent	Excellent	Excellent
Calcium phosphate	Excellent	Excellent	Excellent
Calcium disulfide	Good	Fair	No Information
Carbon tetrachloride	Good	Not recommended	Fair
Castor oil	Excellent	Not recommended	Fair
Chlorine	Excellent	Fair	Fair
Chloroacetone	Not recommended	Excellent	Not recommended
Chlorobenzene	Fair	Fair	No Information
Chlorodibromomethane	Fair	Fair	No Information
Chloroform	Fair	Not recommended	Not recommended
Chloronaphthalenes	Fair	Fair	No Information
Chromic acid	Fair	Fair	Good
Cisplatin	Good	Good	No Information
Citric acid	Excellent	Excellent	Excellent
Creosote	Excellent	Fair	Good
Cresol	Excellent	Good	Good
Cutting oil	Excellent	Not recommended	Excellent
Cyclohexane	Excellent	Not recommended	Fair
Cyclohexanol	Excellent	Excellent	Excellent

Chemical	Glove Material		
	Nitrile	Latex	Vinyl
Cyclohexanone	Not recommended	Good	Not recommended
Cyclohexylamine	Fair	Fair	No Information
Diacetone alcohol	Good	Excellent	Not recommended
Diallylamine	Fair	Fair	No Information
Dibutyl phthalate	Excellent	Excellent	Not recommended
Dibutylether	Good	Not recommended	Fair
Dichloroethane	Fair	Not recommended	Not recommended
Dichloroacetyl chloride	Fair	Fair	No Information
Diesel oils	Excellent	Not recommended	Fair
Diethanolamine	Excellent	Excellent	Excellent
Diethylamine	Good	Fair	No Information
Diethylene glycol	Excellent	Excellent	No Information
Diethylenetriamine	Fair	Fair	No Information
Di isobutylamine	Excellent	Fair	No Information
Di isobutyl ketone	Good	Fair	No Information
Di methylacetamide	Fair	Good	No Information
Di methyl ether	Good	Fair	No Information
Di methylformamide: DMF	Fair	Fair	No Information
Di methyl sulfoxide: DMSO	Good	Excellent	No Information
Di-n-amyllamine	Excellent	Fair	No Information
Di-n-butylamine	Excellent	Fair	No Information
Di-n-butyl phthalate	Excellent	Fair	No Information
Di-n-octyl phthalate	Excellent	Fair	No Information
Diocetyl phthalate	Excellent	Fair	Not recommended
Dyes: hair	Excellent	Excellent	Excellent
1, 3-Dioxane	Fair	Fair	No Information
1, 4-Dioxane	Fair	Fair	No Information
<b>Ethanol: Ethyl Alcohol</b>	Excellent	Good	Excellent
2-Ethoxyethanol	Excellent	Fair	Good
2-Ethoxyethylacetate	Fair	Not recommended	Not recommended
Ethylaniline	Excellent	Fair	Fair
Ethylene glycol	Excellent	Excellent	Excellent
Ethyl acetate	Fair	Fair	No Information
Ethylene dichloride	Fair	Fair	No Information
Ethyl ether	Good	Fair	No Information
Ethylene glycol	Excellent	Excellent	No Information
Ethylene glycol dimethyl ether	Fair	Fair	No Information
Epichlorohydrin	Fair	Fair	No Information
<b>Fertiliser</b>	Excellent	Excellent	Excellent
Fish & Shellfish	Excellent	Fair	Fair
Fixing agents	Excellent	Excellent	Excellent
Flourides	Excellent	Fair	Fair
Formaldehyde 30% - 70%	Excellent	Good	No Information
Formic acid	Good	Excellent	No Information
Freon 113 or TF	Excellent	Fair	No Information
Freon TMC	Fair	Fair	No Information
Fuels	Excellent	Not recommended	Good
Furaldehyde	Not recommended	Good	Not recommended
Furfural	Fair	Fair	No Information
<b>Gas oils</b>	Excellent	No Information	Good
Gasoline, 40-50% aromatics	Excellent	Fair	No Information
Gasoline, unleaded	Good	Fair	No Information
Glutaraldehyde <5%	Good	Good	No Information
Glycerine	Excellent	Excellent	Excellent
Glycerophthalic paint	Excellent	Not recommended	Fair
Glycols	Excellent	Excellent	Excellent
Hairdressing bleaches	Excellent	Excellent	Excellent
Heptanes	Excellent	Fair	No Information
Hexamethyldisiloxane	Good	Fair	No Information

# Chemical Resistance Chart

Chemical	Glove Material		
	Nitrile	Latex	Vinyl
Hexane	Excellent	Not recommended	Fair
Household Detergents	Good	Excellent	Excellent
Hydraulic fluid: Petrol	Excellent	Not recommended	Fair
Hydraulic fluid: Esters	Excellent	Excellent	Fair
Hydrazine	Excellent	Fair	No Information
Hydrochloric acid <30%	Good	Excellent	No Information
Hydrochloric acid 30-70%	Good	Good	No Information
Hydrofluoric acid <50%	Excellent	Excellent	No Information
Hydrogen peroxide	Excellent	Fair	Excellent
Isobutanol: isobutylic alcohol	Excellent	Good	Excellent
Isobutylcetone	Not recommended	Excellent	Not recommended
Isooctane	Excellent	Fair	No Information
Isopropyl alcohol	Excellent	Excellent	No Information
Isopropylamine	Fair	Fair	No Information
Jet fuel <30% aromatics 73-248C	Good	Fair	No Information
Kerosene	Excellent	Not recommended	Good
Lactic acid 85%	Good	Good	Excellent
Lard oil	Excellent	Not recommended	Fair
Lauric acid	Good	Good	No Information
Linseed oil	Excellent	Not recommended	Fair
Lubricating oil	Excellent	Not recommended	Fair
Magnesium oxide	Excellent	Excellent	Excellent
Malathion 30-70%	Excellent	Excellent	No Information
Maleic acid	Good	Good	No Information
Methanol: methyl alcohol	Excellent	Fair	Good
2-Methoxyethanol	Excellent	Fair	Good
Methyl acetate	Fair	Fair	No Information
Methyl ethyl ketone	Not recommended	Good	Not recommended
Methyl isobutyl ketone	Not recommended	Good	Not recommended
Methyl methacrylate	Fair	Fair	No Information
Methylamine	Excellent	Good	Excellent
Methylaniline	Excellent	Fair	Excellent
Methylene chloride	Fair	Not recommended	Not recommended
Milk & dairy products	Excellent	Fair	Excellent
Mineral fats	Excellent	Not recommended	Fair
Monochlorobenzene	Not recommended	Fair	Not recommended
Monoethanolamine	Excellent	Excellent	Excellent
Naphta: white spirit 15-20% aromatics	Excellent	Fair	No Information
Naphta: white spirit <3% aromatics	Excellent	Fair	No Information
Naphtalene	Good	Not recommended	Not recommended
n-Amyl acetate	Fair	Fair	No Information
n-Butyl acetate	Fair	Fair	No Information
n-Butyl alcohol	Excellent	Excellent	No Information
n-Methyl-2-Pyrrolidone	Fair	Excellent	No Information
n-Nitrosodiethylamine	Fair	No Information	No Information
n-Butanol: butylic alcohol	Excellent	Good	Excellent
n-Propyl alcohol	Excellent	Excellent	No Information
Nitric acid <30%	Excellent	Excellent	No Information
Nitric acid 30-70%	Fair	Fair	No Information
Nitrobenzene	Fair	Fair	No Information
Nitroethane	Fair	Excellent	No Information
Nitrohydrochloric acid	Fair	Not recommended	Fair
1-Nitropropane	Fair	Good	No Information
2-Nitropropane	Fair	Fair	No Information
Non alcoholic beverages	Excellent	Excellent	Excellent
Octane	Excellent	Excellent	Excellent
Octanol: octyl alcohol	Excellent	Excellent	Excellent
Oils for turbines	Excellent	Not recommended	Fair
Oleic acid	Excellent	Good	Good

Chemical	Glove Material		
	Nitrile	Latex	Vinyl
Olive oil	Excellent	Not recommended	Fair
Oxalic acid	Excellent	Excellent	Excellent
Palmitic acid	Excellent	Fair	No Information
Paraffin oil	Excellent	Not recommended	Fair
Peanut oil	Excellent	Not recommended	Fair
Pentachlorophenol	Good	Fair	No Information
Pentane	Excellent	Fair	No Information
Perchloric acid 30-70%	Excellent	Fair	No Information
Perchloroethylene	Good	Fair	No Information
Perfumes & essences	Excellent	Excellent	Excellent
Peroxyacetic acid	Fair	Fair	No Information
Petrol	Excellent	Not recommended	Fair
Petroleum ethers: 80-110C	Good	Fair	Not recommended
Petroleum products	Good	Not recommended	Fair
Phenol: phenic alcohol	Fair	Good	Good
Phenol: phenic alcohol >70%	Excellent	Fair	No Information
Phosphoric acid 75%	Excellent	Good	No Information
Picric acid	Excellent	Good	No Information
Polychlorinated biphenyls: bcp	Good	Fair	No Information
Polyester resins	Good	Not recommended	Fair
Potassium bicarbonate	Excellent	Excellent	Excellent
Potassium bichromate	Excellent	Fair	Excellent
Potassium carbonate	Excellent	Excellent	Excellent
Potassium carbonate conc.	Excellent	Good	Excellent
Potassium chloride	Excellent	Excellent	Excellent
Potassium cyanide	Excellent	Excellent	Excellent
Potassium hydroxide	Excellent	Good	No Information
Potassium iodide	Excellent	Excellent	No Information
Potassium nitrate	Excellent	Excellent	Excellent
Potassium permanganate	Excellent	Excellent	Excellent
Potassium phosphate	Excellent	Excellent	Excellent
Potassium sulphate	Excellent	Excellent	Excellent
Poultry	Excellent	Fair	Not recommended
Propyl acetate	Fair	Fair	No Information
Pyridine	Fair	Fair	No Information
Setting agents	Excellent	Excellent	Excellent
Shampoos	Excellent	Excellent	Excellent
Silicate	Excellent	Excellent	Excellent
Silicone etch	Fair	Fair	No Information
Silver nitrate	Good	Excellent	No Information
Sodium bicarbonate	Excellent	Excellent	Excellent
Sodium bisulphate	Excellent	Excellent	Excellent
Sodium carbonate	Excellent	Excellent	Excellent
Sodium chloride	Excellent	Excellent	Excellent
Sodium fluoride	Excellent	Excellent	No Information
Sodium hydroxide 30-70%	Excellent	Excellent	No Information
Sodium hypochloride	Excellent	Excellent	Excellent
Sodium hypochlorite	Excellent	Excellent	No Information
Sodium nitrate	Excellent	Excellent	Excellent
Sodium phosphates	Excellent	Excellent	Excellent
Sodium sulphate	Excellent	Excellent	Excellent
Sodium thiosulfate	Excellent	Excellent	No Information
Soya bean oil	Excellent	Not recommended	Fair
Styrene	Fair	Not recommended	Not recommended
Sulphites: bi and hypo	Excellent	Excellent	Excellent
Sulphuric acid <30%	No Information	Excellent	No Information
Sulphuric acid 30-70%	Fair	Excellent	No Information
Sulphuric acid >70%	Fair	Fair	Fair
Tannic acid	Good	Good	No Information

# Chemical Resistance Chart

Chemical	Glove Material		
	Nitrile	Latex	Vinyl
THF: Tetrahydrofurane	Fair	Not recommended	Not recommended
Toluene	Good	Not recommended	Fair
Toluene-2,4-Diisocyanate: TDI	Fair	Fair	No Information
Tributylphosphate	Not recommended	Not recommended	Not recommended
Trichlorethylene	Fair	Not recommended	Not recommended
Tricresyl phosphate	Good	Good	No Information
Triethanolamine 85%	Excellent	Excellent	Excellent
Trinitrobenzine	Good	Not recommended	Fair
Trinitrotoluene	Good	Not recommended	Fair
Triphenylphosphate	Fair	Not recommended	Not recommended
Turnipseed oil	Excellent	Not recommended	Not recommended
Turpentine	Excellent	Not recommended	Fair
Turpentine spirit	Excellent	Not recommended	Fair
1,2,4,5- Tetrachlorobenzene	Excellent	No Information	No Information
1,1,1,2- Tetrachloroethane	Fair	Fair	No Information
1,2,4-Trichlorobenzene	Fair	Fair	No Information
1,1,1-Trichloroethane	Fair	Fair	No Information
1,1,2-Trichloroethane	Fair	Fair	No Information
Vinegar & condiments	Excellent	Excellent	Good
Vinyl acetate	Fair	Not recommended	Not recommended
Washing powders	Excellent	Excellent	Excellent
Water paints	Excellent	Excellent	Excellent
Weedkillers	Excellent	Good	Good
Xylene	Good	Not recommended	Fair
Xylophene	Good	Not recommended	Fair
Zinc sulphate	Excellent	Excellent	Excellent

## Warning:

Information is based upon published research data. Glove Plus gloves have not been individually tested against these chemicals.

Variability in material thickness, chemical concentration, temperature and length of exposure to chemicals will affect specific performance

## General Information:

The chemical compatibility information provided on this chart is intended to provide general information about the reaction of Nitrile, Natural Rubber Latex and Vinyl glove films to the commonly used chemicals listed. The ratings scale takes into consideration three primary factors:

1. The ability of the chemical to permeate (pass through) the glove film.
2. The ability of the chemical to degrade (break down) the physical structure of the glove film.
3. The risk that contact exposure to the chemical poses to the glove wearer.

Glove Plus Nitrile, Natural Rubber Latex and Vinyl gloves are thin gauge disposable products designed to provide barrier protection and tactile sensitivity to the wearer. Our gloves are not designed for applications involving prolonged, direct exposure to chemicals. Our intent in providing this chemical compatibility information is to provide a guideline for use of our gloves in applications where incidental splash exposure to various chemicals may occur.

Barber Healthcare recommends that you **USE CAUTION AT ALL TIMES:**

1. Verify that your gloves are compatible with your specific applications, processes and materials before use.
2. When performing processes where gloves will receive prolonged, direct exposure to chemicals, use a glove specifically designed for chemical handling.
3. Avoid the risk of exposing your workers, products and facilities to chemical cross-contamination: immediately dispose of gloves after contact with chemicals.
4. Double gloving provides additional barrier protection and allows the outer glove to be disposed of after contact with chemicals without exposing the hand.
5. Do not use powdered gloves with substances known to pose inhalant hazards.
6. If you have any questions about using Glove Plus gloves or the information on this chart, please contact us on +44 (0) 1969 624 846.