

## Chemical Permeation BTT (min) / Permeation Index

Chemical Name	CAS NO.	Leipzig 904400			
		>60	3	>30	2
Acetic Acid 50%	64-19-7	>60	3	>60	3
Acetic acid (Glacial)	64-19-7	>30	2	>30	2
Acetone	67-64-1	<10	0	<10	0
Acetonitrile	75-05-8	>10	1	>10	1
Ammonia 10%	1336-21-6	>240	5	>120	4
Ammonia Acetate	631-61-8	>30	2	>30	2
Ammonia Chloride	12125-02-9	>30	2	>30	2
Ammonia Nitrate	6484-52-2	>30	2	>30	2
Butyl acetate	123-86-4	>30	2	>30	2
Calcium Chloride	10043-52-4	>30	2	>30	2
Calcium Hydroxide	1305-62-0	>30	2	>30	2
Calcium Hypochlorite	7778-54-3	>30	2	>30	2
Calcium Nitrate	10124-37-5	>480	6	>480	6
Citric Acid (Pure)	77-92-9	>480	6	>480	6
Cyclo-hexane	110-82-7	>120	4	>120	4
Cyclohexanone	108-94-1	>30	2	>30	2
Cyclohexanol	108-93-0	>480	6	>480	6
Diesel Oil	68334-30-5	>480	6	>480	6
Diethylamine	109-89-7	>30	2	>30	2
Diethylether	60-29-7	>10	1	>10	1
Dimethyl sulfoxide (DMSO)	67-68-5	>60	3	>60	3
Dimethylformamide (DMF)	68-12-2	>10	1	>10	1
Ethanol	64-17-5	>120	4	>120	4
Ethyl acetate	141-78-6	>10	1	>10	1
Ethylamine	75-04-7	>30	2	>30	2
Ethylene Glycol	107-21-1	>480	6	>480	6
Formaldehyde 30%	50-00-0	>480	6	>480	6
Formic Acid 90%	64-18-6	>60	3	>60	3
Gasoline	8006-61-9	>60	3	>60	3
Glycerine	56-81-5	>480	6	>480	6
Heptane	142-82-5	>60	3	>60	3
Hexane	110-54-3	>480	6	>480	6
Hydrochloric Acid (30%)	7647-01-0	>480	6	>480	6
Hydrofluoric Acid (48%)	7664-39-3	>60	3	>60	3
Hydrogen Peroxide 31%	7722-84-1	>240	5	>60	3
Iso-Octane	540-84-1	>480	6	>480	6
Iso-Propanol	67-63-0	>480	6	>480	6
Kerosene	8008-20-6	>480	6	>480	6
Maleic acid	110-16-7	>480	6	>480	6
Methanol	67-56-1	>30	2	>30	2
Methylene Chlorine	75-09-2	<10	0	<10	0
Methylethylketone (MEK)	78-93-3	<10	0	<10	0
Methyl Methacrylate	80-62-6	>10	1	>10	1
Nitric Acid 20%	7697-37-2	>480	6	>480	6
Nitrobenzene	98-95-3	>30	2	>30	2
N-methyl-2-pyrrolidone	872-50-4	>10	1	>10	1
Oleic Acid	112-80-1	>480	6	>480	6
Octane	111-65-9	>480	6	>480	6
Oxalic Acid (Pure)	144-62-7	>480	6	>480	6

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		>30	2	>30	2
Phenol 85%	108-95-2	>30	2	>30	2
Phosphoric Acid (85%)	7664-38-2	>480	6	>480	6
Propanol	71-23-8	>480	6	>480	6
Propylacetate	109-60-4	>10	1	>10	1
Potassium Nitrate	7757-79-1	>240	5	>240	5
Sodium Nitrate	7631-99-4	>480	6	>240	5
Sodium Hydroxide 40%	1310-73-2	>480	6	>240	5
Sodium Hypochlorite 10%	7681-52-9	>60	3	>60	3
Sulphuric Acid 96%	7664-93-9	>60	3	>60	3
Tetrahydrofurane (THF)	109-99-9	<10	0	<10	0
Toluene	108-88-3	>10	1	>10	1
Xylene	1330-20-7	>10	1	>10	1
1,1,2-Trichlorotrifluoroethane		>480	6	>480	6
1,2-Propandiol		>480	6	>480	6
1-Methoxy-2-propanol		>120	4	>120	4
1-Methyl-2-pyrrolidone		>10	1	>10	1
2-Ethylhexyl acrylate		>480	6	>480	6
2-Mercatoethanol		>120	4	>120	4
2-Methoxy-2-methylpropane		>120	4	>120	4
Acetaldehyde 99%	75-07-0	<10	0	<10	0
Acetic acid anhydride		>30	2	>30	2
Acetyl acetone		<10	0	<10	0
Acetyl chloride		>10	1	>10	1
Acrylic acid 95%	79-10-7	>120	4	>120	4
Benzaldehyde		<10	0	<10	0
Benzene 99%	71-43-2	<10	0	<10	0
Benzoid acid		>480	6	>480	6
Bis(2-ethylhexyl) phthalate		>480	6	>480	6
Boric acid		>480	6	>480	6
Butyl Acrylate 99%	141-32-2	>10	1	>10	1
Butyl amine (1-aminobutane)		<10	0	<10	0
Butyl diglycol		>480	6	>480	6
Butyl diglycol acetate		>480	6	>480	6
Carbon disulphide		<10	0	<10	0
Caustic soda solution, saturated		>480	6	>480	6
Chlorobenzene		>10	1	>10	1
Chloroform		<10	0	<10	0
Chromic Acid 50%	7738-94-5	>120	4	>120	4
Chromosulphuric acid 10%		>480	6	>480	6
Chromosulphuric acid, concentrated		>60	3	>60	3
Cyclohexane		>480	6	>480	6
Cyclohexylamine		>60	3	>60	3
Diacetone alcohol		>120	4	>120	4
Dibutyl Phthalate 99%	84-74-2	>480	6	>480	6
Dibutylamine		>480	6	>480	6
Diesel fuel		>480	6	>240	5
Diethanolamine		>480	6	>480	6
Diethyl ether		>10	1	>10	1
Diethyl phthalate (DEP)		>480	6	>480	6
Diethyl sulphide		>10	1	>10	1
Diethylene glycol		>480	6	>480	6
Diethylene triamine		>60	3	>60	3
Dimethyl phthalate		>480	6	>480	6
Dimethyl sulphate		>120	4	>120	4
Dimethyl sulphoxide		>60	3	>60	3
Dioxane		>10	1	>10	1
Diphenylamine		>30	2	>30	2
Dodecyl mercaptane		>480	6	>480	6

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		>480	6	>480	6
Ethanolamine		>480	6	>480	6
Ethidium bromide 1%		>480	6	>480	6
Ethoxypropanol		>120	4	>120	4
Ethyl acrylate 99%	140-88-5	>10	1	>10	1
Ethyl benzene 99%	100-41-4	>10	1	>10	1
Ethyl butyrate		>10	1	>10	1
Ethylene carbonate 30%		>480	6	>480	6
Ethylene chloride (1,2-dichlorethane)		<10	0	<10	0
Ethylene glycol monobutylether		>480	6	>480	6
Formamide		>480	6	>480	6
Formic Acid 98%		>10	1	>10	1
gamma-Butyrolactone		>30	2	>30	2
Glycerol		>480	6	>480	6
Hydrazine 35%	302-01-2	>480	6	>480	6
Hydrobromic acid 47%		>480	6	>480	6
Hydroquinone (Solid)		>480	6	>480	6
Iodine		>480	6	>480	6
Iron (III) chloride		>480	6	>480	6
Iron (III) chloride solution 10-40%		>480	6	>480	6
Isobutyl alcohol 99%	78-83-1	>120	4	>120	4
Isooctane		>480	6	>480	6
Isophorone		>60	3	>60	3
Isopropyl acetate		>10	1	>10	1
Isopropyl alcohol		>240	5	>240	5
Lactic acid		>480	6	>480	6
Methacrylic acid		>120	4	>120	4
Methane sulphonic acid (MSA)		>60	3	>60	3
Methyl acetate		<10	0	<10	0
Methyl acrylate		<10	0	<10	0
Methyl ethyl ketone		<10	0	<10	0
Methyl formiate		<10	0	<10	0
Methyl isobutyl ketone (MIBK)		<10	0	<10	0
Monoethylene glycol		>480	6	>480	6
N,N-Dimethyl acetamide		>10	1	>10	1
Naphtha benzene		>240	5	>240	5
Nitrobenzene		>30	2	>30	2
o-Cresol		>30	2	>30	2
o-Dichlorobenzene		>30	2	>30	2
ortho-Phosphoric acid 85%		>480	6	>480	6
Palmitinic acid		>480	6	>480	6
Paraffin, liquid		>480	6	>480	6
Paraformaldehyde		>480	6	>480	6
Pentane		>240	5	>240	5
Phenolphthalein		>480	6	>480	6
Phosphoryl chloride		>30	2	>30	2
Potash alkaline, 10%		>480	6	>480	6
Potash alkaline, saturated		>480	6	>480	6
Potassium hydroxide		>480	6	>480	6
Propionic acid		>60	3	>60	3
Propylamine		>10	1	>10	1
Pyridine 99%	110-86-1	>10	1	>10	1
Silicium tetrachloride		>480	6	>480	6
Silver nitrate		>480	6	>480	6
Sodium thiosulpahte		>480	6	>480	6
Styrene 99%	100-42-5	>30	2	>30	2
tert-Butylethylether		>480	6	>480	6
Tetrachloroethylene (Perchloroethylene)	127-18-4	>240	5	>240	5
Tetramethylethylenediamine		>120	4	>120	4
Texanol		>480	6	>480	6
Thioacetamide		>480	6	>480	6

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		>60	3	>60	3
Thioglycolic acid		>10	1	>10	1
Tributyl phosphate		>480	6	>480	6
Triethylamine 99%	121-44-8	>10	1	>10	1
Vinyl acetate monomer		>10	1	>10	1
White spirit		<10	0	<10	0

<i>Permeation Index</i>	
< 10 minutes	0
> 10 minutes	1
> 30 minutes	2
> 60 minutes	3
> 120 minutes	4
> 240 minutes	5
> 480 minutes	6

**WARNING:**

This test data should not be used as the absolute basis for glove selection because gloves and actual in-use conditions may vary from the controlled conditions of laboratory tests. Factors other than chemical contact time, concentration and temperature, glove thickness and glove reuse, may also affect performance. The greater the potential hazard, the more important is to establish protection levels under condition that would more closely duplicate those of actual usage.