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CHEMICAL RESISTANCE GUIDE

CHEMICALS (Please see page 6 for General Information and Cautions)	LATEX	NITRILE
Acetaldehyde		
Acetamide		
Acetic acid (50% concentration)		
Acetone		
Acetonitrile		
Acetophenone		
Acetyl chloride		
Acrylamide (same as 2-propenamide)		
Acrylic acid		
Aircraft stripper		
Aluminum nitrate (nonhydrous) (10% concentration)		
Ammonia (anhydrous)		
Ammonium benzoate (same as benzoic acid)		
Ammonium hydroxide (30% concentration)		
Ammonium hydroxide (concentrated)		
Ammonium oxalate		
Ammonium sulfate (aqueous)		
Amyl acetate		
Aniline		
Antifreeze (methanol-based)		
Benzaldehyde		
Benzene		
Benzoic acid		
Boric acid		
Brake cleaner (containing hexane or ethanol)		
Brake cleaner, non-chlorinated (containing acetone, n-heptane and/or xylene)		
Brake fluid		
Bromine (anhydrous liquid)		
Bromoethane (methyl bromide)		
Butyl acetate		
n-Butyl alcohol (propyl carbinol)		
n-Butyl chloride		
1, 3-Butylene glycol (1,3-butanediol)		
Calcium chloride (aqueous)		
Calcium hydroxide (dental)		
Carbamide peroxide (urea+hydrogen peroxide at 1:1 ratio)		
Carbon dioxide		
Carbon disulfide		
Carbon tetrachloride		
Carburetor cleaner (typically xylene, toluene and/or acetone		
Castor Oil		





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Chlorine (wet)		
Chlorobenezene		
Chloroform		
o-Chloronaphthalene		
Chromic acid (50% concentration)		
Citric acid (10% concentration)		
Clonidine hydrochloride (0.1% concentration)		
Cresols		
Cupric sulfate (copper sulfate)		
Cyanic compounds		
Cyclohexane		
Cyclohexanol		
Cyclohexanone		
Decahydronaphthalene (decalin)		
Denatured alcohol		
Dental etching material		
Dental resin cement		
Dental waxes		
Denture polishing material		
Detergent solutions		
Developing fluids		
Diamond polishing paste		
Dibutyl phthalate		
o-dichlorobenzene		
p-dichlorobenzene		
Dichloromethane		
Diesel fuel		
Diesel fuel additive		
Diethylamine		
Diethylene glycol		
Diisobutyl ketone (DIBK)		
N, N-dimethyl acetamide (same as dimethyl acetamide (DMAC), same as acetic acid)		
Dimethylformamide		
Dimethyl sulfoxide (DMSO)		
Dioctyl phthalate (DOP)		
Dioxane		
EDTA (17% solution)		
Engine cleaner and degreaser (containing kersosene, petroleum distillates or propane-isobutane-n-butane as main components)		
Epoxy primer (containing toluene, acetone, MEK and/or n-butyl acetate)		
Ethanol (ethyl alcohol) (95% concentration)		
Ethanolamine		
CHEMICAL RATINGS KEY EXCELLENT GOOD FAIR NOT RECOMMENDED	N	O DATA





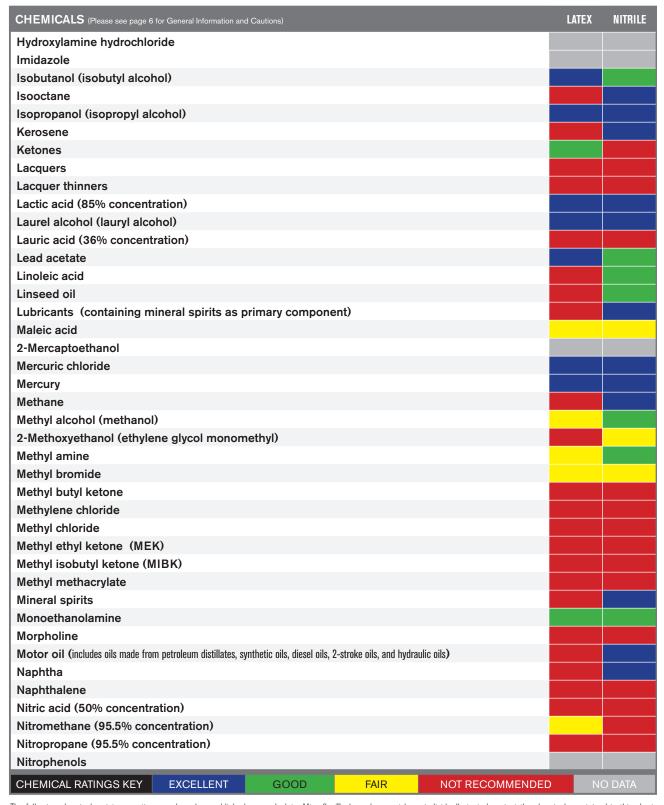
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CHEMICALS (Please see page 6 for General Information and Cautions)	LATEX	NITRILE
Ether		
Ethidium bromide (0.5% concentration)		
2-ethoxyethanol (ethoxyethanol)		
Ethyl acetate		
Ethyl ether		
Ethylene dichloride		
Ethylene glycol		
Ethylene oxide		
Ferric chloride (aqueous)		
Formaldehyde		
Formalin (40% concentration of formaldehyde)		
Formamide		
Formic acid (90% concentration)		
Freon 11		
Freon 12		
Freon 21		
Freon 22		
Fuel injector cleaner (primarily kerosene)		
Furfural		
Gasoline, leaded		
Gasoline, unleaded		
Glass ionomer dental cements		
Glucose		
Gluteraldehyde (50% concentration)		
Glycerin		
Glycerol		
Grease, automotive (petroleum-based)		
Grease, automotive (silicon-based)		
Grease, automotive (synthetic)		
Heptane (n-heptane)		
Hexane		
Hydraulic fluid (petroleum-based)		
Hydrochloric acid (20% concentration)		
Hydrochloric acid (50% concentration)		
Hydrochloric acid (concentrated)		
Hydroflouric acid (48% concentration)		
Hydroflouric acid (concentrated)		
Hydrogen peroxide (3% concentration)		
Hydrogen peroxide (30% concentration)		
Hydrogen peroxide (concentrated)		
Hydroquinone		
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Octyl alcohol (octanol)		
Oleic acid		
Oxalic acid		
Paint (latex-based)		
Paint (oil-based)		
Paint, automotive (paint containing V.M.&P. naphtha, mineral spirits; with small amounts of toluene, xylene or n-butyl acetate)		
Paint, automotive (paints containing large amounts of toluene, xylene or n-butyl acetate)		
Paint activator, automotive (containing MEK, polyisocyanate resin, and/or butyl acetate)		
Paint reducers/thinners, automotive (aliphatic hydrocarbons, eg. V.M.&P. naphtha or mineral spirits)		
Paint reducers/thinners, automotive (aromatic hydrocarbons, eg. toluene or xylene)		
Paint thinner (Duco)		
Palmitic acid		
Paraformaldehyde		
Parts wash, automotive (containing naphtha, n-hexane, cyclohexane and/or MEK)+A64		
Pentane		
Pentyl ether (same as pentane)		
Perchloric acid (60% concentration)		
Perchloroethylene		
Periodic acid (50% concentration)		
Petroleum distillates (naphthas)		
Phenol (0.1% concentration)		
Phenol (approx. 100% concentration)		
Phenolphthalein (aromatic phenols)		
Phosphoric acid (0 to 50% concentration)		
Phosphoric acid (50-85% concentration)		
Phosphoric acid (100% concentration)		
Polysorbates		
Potassium bromate		
Potassium chloride		
Potassium cyanide		
Potassium dichromate (aqueous)		
Potassium hydroxide		
Potassium iodide		
Potassium permanganate		
Potassium sulfate (potassium sulphate)		
Propyl acetate		
Propyl alcohol		
Propylene (1-propene, methylethyelene)		
Propylene glycol		
Pyridine		
Rust inhibitors, automotive		
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Rust remover, automotive (containing <50% phosphoric aid)		
Silver nitrate (0.17N)		
Sodium acetate (aqueous)		
Sodium azide (sodium salt)		
Sodium bicarbonate (aqueous) (baking soda)		
Sodium chloride (aqueous)		
Sodium cyanide (aqueous)		
Sodium hydroxide (50% concentration)		
Sodium hypochlorite (bleach)		
Sodium selenate (10% concentration)		
Sodium thiosulfate (developing fluids)		
Staining rating (all stains)		
Styrene		
Sulfuric acid (50% concentration)		
Sulfuric acid (93-98% concentration)		
Tannic acid (65% concentration)		
Tetrachloroethylene		
Tetrahydrofuran		
Tetramethylurea		
Toluene		
Toluene diisocyanate		
Transmission fluid, Type A		
Transmission fluid, synthetic		
Trichloroethylene		
Triethanolamine		
Triton X-100, Igepal CA, Polytergent G (octoxynol with varying ethylene oxide units)		
Tung oil		
Turpentine		
Undercoater, rubberized (automotive)		
Urea		
Varnish		
Vinyl chloride		
Water		
Wax remover, automotive (containing V.M.&P. naphtha, xylene and/or ethylbenzene)		
Xylene (Xylol)		
CHEMICAL RATINGS KEY EXCELLENT GOOD FAIR NOT RECOMMENDED	NO	DATA

The following chemical resistance ratings are based on published research data. Microflex gloves have not been individually tested against the chemicals contained in this chart.

General Information and Cautions: Your understanding of how to use thin-film gloves is extremely important to your safety.

Microflex* gloves are intended for use as protection against incidental exposure to chemicals and other harmful substances. These gloves do not offer protection against all chemicals under all conditions, and are not designed to provide protection against prolonged or continuous exposure to harmful substances.

As a precaution, glove users are advised to change gloves immediately upon exposure to harmful substances. It is the responsibility of the user to choose the appropriate glove type, thickness and to change gloves as they become contaminated.

This Chemical Resistance Chart is offered as a guide and for reference purposes only. The chemical resistance ratings are based on published research data. Microflex cannot certify the accuracy of the data and therefore does not represent nor warrant that the information in the chemical resistance chart is accurate or complete.

Microflex* gloves have NOT been individually tested against the chemicals contained in this chart. The barrier properties of each glove type may be affected by differences in material thickness, chemical concentration, temperature, and length of exposure to chemicals.

If you ever have a problem, or have any questions about your Microflex[®] gloves, our Customer Service team is ready to assist you. Microflex is a glove provider that is ISO 13485 registered, exceeding the normal standards of FDA, QSR, and ISO 9000 requirements. Microflex[®] gloves meet or exceed all current medical grade examination glove standards imposed by the ASTM International and the Food and Drug Administration (FDA). At 1.5 AQL, our gloves meet or exceed new AQL standards.

References: Chemical Resistance Guide to Elastomers III; A Guide to Chemical Resistance of Rubber and Elastomeric Compounds, Compass Publications, La Jolla, CA, 2005. Plastics Design Library-Chemical Resistance of Plastics and Elastomers, 3rd edition, William Andrew Publishing, 2003. Dupont Dow Elastomers Chemical Resistance Guide; The Los Angeles Rubber Group; www.dupont-dow.com