Chemical Compatibility Guide for: Microflex Nitrile and Latex Gloves

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CHEMICAL RESISTANCE GUIDE



CHEMICAL RESISTANCE GUIDE FOR MICROFLEX LATEX AND NITRILE GLOVES.

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Chemicals	Latex (NATURAL RUBBER)	Nitrile (BUNA N)	Chemicals	(NATURAL RUBBER)	Nitrile (BUNA N)
Acetaldehyde	WANTER STATE OF THE STATE OF TH		Hydrogen peroxide (30% concentration)	323 C C C C C C C C C C C C C C C C C C	
Acetamide			Hydrogen peroxide (concentrated)		
Acetic acid (50% concentration)			Hydroquinone		9
Acetone			Hydroxylamine hydrochloride		
Acetonitrile			Imidazole		
Acetophenone			Isobutanol (isobutyl alcohol)		
cetyl chloride			Isooctane		
.crylamide (same as 2-propenamide)			Isopropanol (isopropyl alcohol)		-
crylic acid			Kerosene		
ircraft stripper			Ketones		
luminum nitrate (nonhydrous) (10% concentration)			Lacquers		
mmonia (anhydrous)			Lacquer thinners		11-11-11
mmonium benzoate (same as benzoic acid)			Lactic acid (85% concentration)		
mmonium hydroxide (30% concentration)			Laurel alcohol (lauryl alcohol)		
mmonium hydroxide (concentrated)			Lauric acid (36% concentration)		
mmonium oxalate			Lead acetate		
mmonium sulfate (aqueous)	-		Linoleic acid		
myl acetate			Linseed oil		-
niline			Lubricants (containing mineral spirits as primary component)		
ntifreeze (methanol-based)			Maleic acid		
enzaldehyde	1		2-Mercaptoethanol		
enzene			Mercuric chloride		
enzoic acid			Mercury		
oric acid			Methane		
rake cleaner (containing hexane or ethanol)			Methyl alcohol (methanol)		
rake cleaner, non-chlorinated (containing acetone, n-heptane and/or xylene)			2-Methoxyethanol (ethylene glycol monomethyl)		
rake fluid			Methyl amine		
romine (anhydrous liquid)			Methyl bromide		
romoethane (methyl bromide)			Methyl butyl ketone		1
utyl acetate			Methylene chloride		
Butyl alcohol (propyl carbinol)			Methyl chloride		
Butyl chloride			Methyl ethyl ketone (MEK)		
3-Butylene glycol (1,3-butanediol)			Methyl isobutyl ketone (MIBK)		
alcium chloride (aqueous)			Methyl methacrylate		
alcium hydroxide (dental)			Mineral spirits		
arbamide peroxide (urea+hydrogen peroxide at 1:1 ratio)			Monoethanolamine		
arbon dioxide			Morpholine		
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Chemicals	C" Latex (NATURAL RUBBER)	Nitrile	(Chemicals	Latex (NATURAL RUBBER)	Nitrile	(
Carbon disulfide	(NATOTIAL NOBBLI)	(BONA IV)		Motor oil (includes oils made from petroleum distillates, synthetic oils, diesel oils, 2-stroke oils, and hydraulic oils)		(BOTER IE)	
Carbon tetrachloride				Naphtha			
Carburetor cleaner (typically xylene, toluene and/or acetone				Naphthalene			
Castor Oil				Nitric acid (50% concentration)			
Chlorine (wet)				Nitromethane (95.5% concentration)			
Chlorobenezene				Nitropropane (95.5% concentration)			
Chloroform				Nitrophenols			
o-Chloronaphthalene				Octyl alcohol (octanol)			
Chromic acid (50% concentration)				Oleic acid			
Citric acid (10% concentration)				Oxalic acid			
Clonidine hydrochloride (0.1% concentration)				Paint (latex-based)			
Cresols				Paint (oil-based)			
Cupric sulfate (copper sulfate)				Paint, automotive (paint containing V.M.&P. naphtha, mineral spirits; with small amounts of toluene, xylene or n-butyl acetat			
Cyanic compounds				Paint, automotive (paint containing v.m.o. naphilina, immeral spirits, with sinkin announts of toluene, xylene or n-butyl acetate)		_	
Cyclohexane				Paint activator, automotive (containing MEK, polyisocyanate resin, and/or butyl acetate)			
Cyclohexanol	_			Paint reducers/thinners, automotive (containing wick, polysocyanate resin, and/or butyl acetate)	in l		
	_				rits)		
Cyclohexanone		_		Paint reducers/thinners, automotive (aromatic hydrocarbons, eg. toluene or xylene)		_	
Decahydronaphthalene (decalin)	_			Paint thinner (Duco)			
Denatured alcohol	_			Palmitic acid		_	
Dental etching material	_			Paraformaldehyde		_	
Dental resin cement				Parts wash, automotive (containing naphtha, n-hexane, cyclohexane and/or MEK)+A64		_	
Dental waxes				Pentane			
Denture polishing material				Pentyl ether (same as pentane)			
Detergent solutions				Perchloric acid (60% concentration)			
Developing fluids				Perchloroethylene			
Diamond polishing paste				Periodic acid (50% concentration)			
Dibutyl phthalate				Petroleum distillates (naphthas)			
o-dichlorobenzene		1		Phenol (0.1% concentration)			
p-dichlorobenzene				Phenol (approx. 100% concentration)	A		
Dichloromethane				Phenolphthalein (aromatic phenols)			
Diesel fuel				Phosphoric acid (0 to 50% concentration)			
Diesel fuel additive				Phosphoric acid (50-85% concentration)		1	
Diethylamine				Phosphoric acid (100% concentration)			
Diethylene glycol				Polysorbates			
Diisobutyl ketone (DIBK)				Potassium bromate			
N, N-dimethyl acetamide (same as dimethyl acetamide (DMAC), same as acetic acid)				Potassium chloride			
Dimethylformamide				Potassium cyanide			
Dimethyl sulfoxide (DMSO)		·		Potassium dichromate (aqueous)			
Dioctyl phthalate (DOP)				Potassium hydroxide			
Dioxane				Potassium iodide			
EDTA (17% solution)				Potassium permanganate			
Engine cleaner and degreaser (containing kersosene, petroleum distillates or propane-isobutane-n-butane as main compr	nents)			Potassium sulfate (potassium sulphate)			
Epoxy primer (containing toluene, acetone, MEK and/or n-butyl acetate)	, and the same of			Propyl acetate			
Ethanol (ethyl alcohol) (95% concentration)	_			Propyl alcohol			
Ethanolamine				Propylene (1-propene, methylethyelene)			
Ether				Propylene glycol			
Ethidium bromide (0.5% concentration)							
				Pyridine Rust inhibitors, automotiva			
2-ethoxyethanol (ethoxyethanol)				Rust inhibitors, automotive			
Ethyl acetate				Rust remover, automotive (containing <50% phosphoric aid)			
Ethyl ether				Silver nitrate (0.17N)	_		
Ethylene dichloride				Sodium acetate (aqueous)			
Ethylene glycol Last Revised 5/20/2008		Microflex	Nitri	Sodium azide (sodium salt) le and Latex	Page	4 of 5	

Chemicals	Latex Nitrile (MATURAL RUBBER) (BUNA N)	Chemicals	C Latex Nitrile (BUNA N)
Ethylene oxide		Sodium bicarbonate (aqueous) (baking soda)	
Ferric chloride (aqueous)		Sodium chloride (aqueous)	
Formaldehyde		Sodium cyanide (aqueous)	
Formalin (40% concentration of formaldehyde)		Sodium hydroxide (50% concentration)	
Formamide		Sodium hypochlorite (bleach)	
Formic acid (90% concentration)		Sodium selenate (10% concentration)	
Freon 11		Sodium thiosulfate (developing fluids)	
Freon 12		Staining rating (all stains)	
Freon 21		Styrene	
Freon 22		Sulfuric acid (50% concentration)	
Fuel injector cleaner (primarily kerosene)		Sulfuric acid (93-98% concentration)	
Furfural		Tannic acid (65% concentration)	
Gasoline, leaded		Tetrachloroethylene	
Gasoline, unleaded		Tetrahydrofuran	
Glass ionomer dental cements		Tetramethylurea	
Glucose		Toluene	
Gluteraldehyde (50% concentration)		Toluene diisocyanate	
Glycerin		Transmission fluid, Type A	
Glycerol		Transmission fluid, synthetic	
Grease, automotive (petroleum-based)		Trichloroethylene	
Grease, automotive (silicon-based)		Triethanolamine	
Grease, automotive (synthetic)		Triton X-100, Igepal CA, Polytergent G (octoxynol with varying ethylene oxide units	s)
Heptane (n-heptane)		Tung oil	
Hexane		Turpentine	
Hydraulic fluid (petroleum-based)		Undercoater, rubberized (automotive)	
Hydrochloric acid (20% concentration)		Urea	
Hydrochloric acid (50% concentration)		Varnish	
Hydrochloric acid (concentrated)		Vinyl chloride	
Hydroflouric acid (48% concentration)		Water	
Hydroflouric acid (concentrated)		Wax remover, automotive (containing V.M.&P. naphtha, xylene and/or ethylbenzene)	
Hydrogen peroxide (3% concentration)		Xylene (Xylol)	

Custom Chemical Testing

For chemicals not listed, or for applications that use a specific concentration or combination of chemicals, Microflex offers a custom chemical testing program specifically for its glove products. Please contact your distributor representative or Microflex directly at 800-876-6866 to learn more about this program.

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.

- CHEMICAL RATINGS KEY
EXCELLENT
GOOD
FAIR
NOT RECOMMENDED
NO DATA

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.

Reference

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