

PLEASE SEE INSIDE PANEL FOR CHEMICAL RESISTANCE GUIDE FOR MICROFLEX LATEX AND NITRILE GLOVES.



POWDER-FREE LATEX













LIGHTLY POWDERED LATEX











POWDER-FREE LATEX FOR HIGH RISK ENVIRONMENTS











POWDER-FREE NITRILE





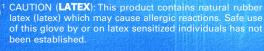




POWDER-FREE NITRILE FOR HIGH RISK ENVIRONMENTS









CAUTION (NITRILE: NON-MEDICAL GRADE): gloves are for non-medical use only. They may <u>NOT</u> be worn for barrier protection in medical or healthcare applications. Please select other gloves for these applications. Components used in making these gloves may cause allergic reactions in some users. Follow your institution's policies for use. For single use only.





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Test Method Description: The test method uses analytical equipment to determine the concentration of and the time at which the challenge chemical permeates through the glove film. The liquid challenge chemical is collected in a liquid miscible chemical (collection media). Data is collected in three separate cells; each cell is compared to a blank cell which uses the same collection media as both the challenge and collection chemical.

Cautionary Information: These glove recommendations are offered as a guide and for reference purposes only. The barrier properties of each glove type may be affected by differences in material thickness, chemical concentration, temperature, and length of exposure to chemicals. Thin-film gloves are designed for transient and single-use only. Gloves should be removed and replaced with

a new pair upon exposure to chemicals. Please follow your institution's policies for use. The data presented in this guide is deemed accurate to the best of Microflex's knowledge.

Test Method: ASTM F739 continuous contact

#### NeoPro® **Chemicals** Acetaldehyde Acetic acid (50%) NBT Aluminum nitrate (10%) NBT Ammonium hydroxide (30%) Benzene Butyl acetate 5 Chloroform Chlonidine hydrochloride (0.10%) NBT Copper(II) ethylenediamine (1 molar) NBT Diesel fuel (1%) 10 Dimethylformamide 30

Dimethyl sulfoxide

#### NeoPro<sup>®</sup> **Chemicals** Ethanol NBT Ethanolamine (99%) NBT Ether Ethidium bromide (1%) NBT Ethyl acetate Formaldehyde (37%) NBT Formamide NBT Gluteraldehyde (50%) Guanidine hydrochloride NBT Hydrochloric acid (50%) Isopropanol NBT Methanol NBT Methyl ethyl ketone Methyl methacrylate (33%) Nitric acid (50%) NBT Periodic acid (50%) NBT Phenol (0.10%) NBT Phenylmethylsulfonyl fluoride (5%) Silver nitrate (10%) NBT Sodium dodecyl sulfate (0.10%) NBT Sodium hydroxide (50%) NBT Sodium selenate (10%) Sulfuric acid (50%) NBT Tetrahydrofuran Toluene Trifluoroacetic acid **Xylene**

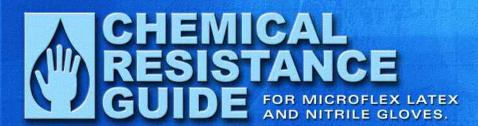
# **KEY: CHEMICAL PERMEATION RATES**

Greater than 60 minutes = Excellent; 31-60 minutes = Very Good 21-30 minutes = Good; 11-20 minutes = Fair; 3-10 minutes = Poor Less than 3 minutes = Not Recommended

Normalized Breakthrough Time: Identified in minutes

**NBT** = No Breakthrough Time up to 120 minutes

Dimethyl sulfoxide Example: 30



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Cyclohexanone Paint reducers/thinners, automotive (aromatic hydrocarbons, eg. toluene or xylene)	
Decahydronaphthalene (decalin)  Denatured alcohol  Paint thinner (Duco)  Palmitic acid	
Dental etching material Paraformaldehyde	
Dental resin cement Parts wash, automotive (containing naphtha, n-hexane, cyclohexane and/or MEK)+A64 Pentane Pentane	
Denture polishing material  Detergent solutions  Pentyl ether (same as pentane)  Perchloric acid (60% concentration)	
Developing fluids Perchloroethylene	
Diamond polishing paste  Dibutyl phthalate  Periodic acid (50% concentration)  Petroleum distillates (naphthas)	
o-dichlorobenzene Phenol (0.1% concentration)	
p-dichlorobenzene Phenol (approx. 100% concentration) Phenol phenolphthalein (aromatic phenols)	
Diesel fuel Phosphoric acid (0 to 50% concentration)	
Diethylamine Phosphoric acid (100% concentration)	
Diethylene glycol  Diisobutyl ketone (DIBK)  Polysorbates  Potassium bromate	
N, N-dimethyl acetamide (same as dimethyl acetamide (DMAC), same as acetic acid)	
Dimethylformamide Potassium cyanide  Dimethyl sulfoxide (DMSD) Potassium dichromate (aqueous)	
Dioctyl phthalate (DDP)  Potassium hydroxide	
Dioxane Potassium iodide Potassium permanganate	
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)  Potassium sulfate (potassium sulphate)  Propyl acetate	
Ethanol (ethyl alcohol) (95% concentration)	
Ethanolamine Propylene (1-propene, methylethyelene) Propylene glycol	
Ethidium bromide (0.5% concentration)	
2-ethoxyethanol (ethoxyethanol)  Ethyl acetate  Rust inhibitors, automotive  Rust remover, automotive (containing <50% phosphoric aid)	
Ethyl ether Silver nitrate (0.17N) Sodium acetate (aqueous)	
Ethylene glycol Sodium azide (sodium salt)	
Ethylene oxide  Sodium bicarbonate (aqueous) (baking soda)  Ferric chloride (aqueous)  Sodium chloride (aqueous)	
Formaldehyde Sodium cyanide (aqueous)	
Formalin (40% concentration of formaldehyde)  Formamide  Sodium hydroxide (50% concentration)  Sodium hypochlorite (bleach)	
Formic acid (90% concentration)  Freon 11  Sodium selenate (10% concentration)  Sodium thiosulfate (developing fluids)	
Freon 12 Staining rating (all stains)	
Freon 21 Styrene 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  Glucose  Tetramethylurea  Toluene	
Gluteraldehyde (50% concentration)  Glycerin  Toluene diisocyanate  Transmission fluid, Type A	
Glycerol Transmission fluid, synthetic	
Grease, automotive (petroleum-based)  Grease, automotive (silicon-based)  Trichloroethylene  Trichloroethylene  Trichloroethylene	
Grease, automotive (synthetic)  Triton X-100, Igepal CA, Polytergent G (octoxynol with varying ethylene oxide units)	
Heptane (n-heptane)  Hexane  Tung oil  Turpentine	
Hydraulic fluid (petroleum-based)  Undercoater, rubberized (automotive)	
Hydrochloric acid (20% concentration)  Hydrochloric acid (50% concentration)  Varnish  Urea  Varnish	
Hydrochloric acid (concentrated) Vinyl chloride	
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.

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.

## References

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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