

MICROFLEX®



CHEMICAL RESISTANCE GUIDE

For NeoPro® and NeoPro®EC Gloves.



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



Chemicals

NeoPro®
NeoPro®EC

Acetaldehyde	0
Acetic acid (50%)	NBT
Aluminum nitrate (10%)	NBT
Ammonium hydroxide (30%)	10
Benzene	0
Butyl acetate	5
Chloroform	0
Chloridine hydrochloride (0.10%)	NBT
Copper(II) ethylenediamine (1 molar)	NBT
Diesel fuel (1%)	10
Dimethylformamide	1
Dimethyl sulfoxide	30



CAUTION (SYNTHETIC): Components used in making these gloves may cause allergic reactions in some users. Follow your institution's policies for use.

Chemicals

NeoPro®
NeoPro®EC

Ethanol	NBT
Ethanolamine (99%)	NBT
Ether	2
Ethidium bromide (1%)	NBT
Ethyl acetate	1
Formaldehyde (37%)	NBT
Formamide	NBT
Glutaraldehyde (50%)	NBT
Guanidine hydrochloride	NBT
Hydrochloric acid (50%)	0
Isopropanol	NBT
Methanol	NBT
Methyl ethyl ketone	0
Methyl methacrylate (33%)	0
Nitric acid (50%)	NBT
Periodic acid (50%)	NBT
Phenol (0.10%)	NBT
Phenylmethylsulfonyl fluoride (5%)	0
Silver nitrate (10%)	NBT
Sodium dodecyl sulfate (0.10%)	NBT
Sodium hydroxide (50%)	10
Sodium selenate (10%)	NBT
Sulfuric acid (50%)	NBT
Tetrahydrofuran	0
Toluene	0
Trifluoroacetic acid	0
Xylene	0

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

Example: Dimethyl sulfoxide 30