



## Layer4 Comfort - Chemical Breakthrough Times

Chemicals	Breakthrough Times (In Minutes)
Acetic Acid 50%	41
Acetone	0
Acetonitrile (5% in Ethanol)	0
Acrylamide 40%	>480
Beta-Mercaptoethanol (>99%)	2
Chloroform (1% in Ethanol)	1
Cyclohexane (99%)	33
Dimethylsulfoxide (DMSO, 100%)	2
Ethanol	1
Ethanol 70%	35
Ethidium Bromide 5%	>480
Formaldehyde 37%	>480
Glutaraldehyde 50%	>480
Hydrochloric Acid 36%	222
Hydrofluoric Acid 40%	23
Iso-Propanol	5
Methanol	0
n-Heptane	14
Nitric Acid 50%	9
Phenol 0.1%	>480
Phenol (50% in Ethanol)	1
Silver Nitrate 0.171 N	>480
Sodium hydroxide (40%)	>480
Sodium hypochlorite (5%), Bleach	>480
Sulfuric Acid 96%	2
Tetrachloroethylene (>99%)	1
Toluene	0
Trichloroacetic Acid	23

Disinfectants	Breakthrough Times (In Minutes)
Sterillium (Alcohol based)	18
Distel Laboratory Disinfectant (1:10)	>480
Chemgene Laboratory Disinfectant (1:20)	>480
Virkon Disinfectant (3%)	>480
Phagogermyl	40
Stokosept <sup>®</sup> protect (alcohol based)	21

**Caution: All tests for determination of breakthrough times were carried out in minutes according to the EN16523- 1:2015 and EN374-3:2003 standard under laboratory conditions. The actual conditions at the working space might have an impact on the resistance to chemical permeation and can lead to varying chemical breakthrough times. All recommendations and test results are for reference purposes only and are subject to errors and revisions if updated data becomes available. The test results are no substitute for an evaluation carried out by the user.**