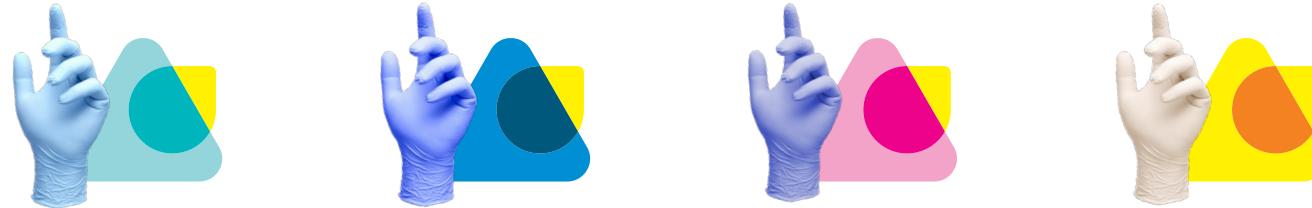


# Chemical Breakthrough Times – protection with **StarGuard®** gloves.



| CHEMICALS                     | COMFORT | PROTECT | SENSITIVE | TOUCH |
|-------------------------------|---------|---------|-----------|-------|
| Acetic Acid (50 %)            | 25      | 50      | 41        | 5     |
| Acetone                       | 0       | 0       | 0         | 0     |
| Acetonitrile (5 % in Ethanol) | 0       | 3       | 0         | 0     |
| Acrylamide (40 %)             | >480    | >480    | >480      | >480  |
| Beta-Mercaptoethanol (<100 %) | 0       | 5       | 2         | 8     |
| Chloroform (1 % in Ethanol)   | 1       | 2       | 1         | 1     |
| Cyclohexane (99 %)            | 10      | 14      | 33        | 0     |
| Dimethylsulfoxide (>99.5 %)   | 2       | 5       | 2         | 18    |
| Ethanol                       | 0       | 1       | 1         | 0     |
| Ethanol (70 %)                | 3       | 9       | 6         | 1     |
| Ethidium Bromide (5 %)        | >480    | >480    | >480      | >480  |
| Formaldehyde (37 %)           | >120    | >240    | >60       | >240  |
| Glutaraldehyde (50 %)         | 286     | >480    | >480      | >480  |
| Hydrochloric Acid (36 %)      | 133     | 222     | 222       | 103   |
| Hydrofluoric Acid (40 %)      | 1       | 4       | 3         | 2     |
| Hydrogen peroxide (30 %)      | > 30    | > 30    | > 120     | > 120 |
| Iso-Propanol                  | 2       | 8       | 5         | 0     |
| Methanol                      | 0       | 0       | 0         | 0     |
| n-Heptane                     | 22      | 11      | 14        | 0     |
| Nitric Acid (50 %)            | 7       | 20      | 9         | 78    |
| Phenol (50 % in Ethanol)      | 0       | 0       | 1         | 1     |

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| CHEMICALS  | COMFORT | PROTECT | SENSITIVE | TOUCH |
|--|---------|---------|-----------|-------|
| Silver Nitrate 0.171 N                                 | > 480   | > 480   | > 480     | > 480 |
| Sodium Hydroxide (40 %) "NaOH"                         | > 480   | > 480   | > 480     | > 60  |
| Sodium Hypochlorite, Bleach (5%)                       | > 480   | > 480   | > 480     | > 480 |
| Sulfuric Acid (96 %) "H <sub>2</sub> SO <sub>4</sub> " | 2       | 0       | 2         | 54    |
| Tetrachloroethylene (>99 %)                            | 0       | 1       | 1         | 0     |
| Toluene  | 0       | 0       | 0         | 0     |
| Trichloroacetic Acid (>99 %)                           | 15      | 30      | 23        | 10    |
| DISINFECTANTS  |         |         |           |       |
| Phagogermyl  | 26      | 50      | 40        | 45    |
| Sterillium (Alcohol based)                             | 14      | 21      | 18        | 9     |
| Stokosept* protect (Alcohol based)                     | 16      | 27      | 21        | 4     |
| Virkon Disinfectant (3 %)                              | >480    | >480    | >480      | >480  |

**Caution:** All tests for determination of breakthrough times were carried out in minutes under laboratory conditions. We would like to emphasize that permeation times are not the same as safe wearing times. The safe wearing time is depending on proper donning of PPE, ambient temperature, toxicity of the chemical, as well as a number of other factors. The test results are no substitute for an evaluation carried out by the user. Estimates may change as new tests provide better basis for extrapolation. The information contained in this report exclusively fulfills an advisory function and Starlab therefore completely excludes liability and guarantees for the statements made here.

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