

ISOLATOR GLOVES CHEMICAL PERMEATION

Breakthrough Time Levels (EN374)

| Chemical | Neoprene Medium Weight (0.51 mm) | Neoprene Heavy Weight (0.76 mm) | Latex Light Weight (0.51 mm) | Latex Heavy Weight (0.76 mm) |
|--|-------------------------------------|------------------------------------|---------------------------------|---------------------------------|
| SOLVENTS | | | | |
| Acetic Acid | 6 | 6 | 4 | 3 |
| Acetone (2-Propanone) | 1 | 2 | 0 | 1 |
| Acetonitrile | 3 | 4 | 0 | 0 |
| C12/C13 alkanes | 6 | 6 | 2 | 3 |
| Chloroform | 1 | 1 | 0 | 0 |
| Dichloromethane (Methylene chloride) | 0 | 0 | 0 | 0 |
| Diethylamine | 0 | 1 | 0 | 0 |
| Diethylether (Ether) | 1 | 1 | 0 | 0 |
| Ethylacetate | 1 | 1 | 0 | 1 |
| Formic Acid | 6 | 6 | 4 | 5 |
| Heptane | 4 | 6 | 0 | 0 |
| Hexane | 2 | 3 | 0 | 0 |
| Methyl Ethyl Ketone (2-Butanone, MEK) | 1 | 1 | 0 | 1 |
| PAH's (Polycyclic aromatic hydrocarbons) | 1 | 1 | 0 | 0 |
| Sodium Hydroxide, NaOH 40% | 6 | 6 | 6 | 6 |
| Sulfuric acid 96% | 4 | 4 | 3 | 3 |
| Tetrahydrofurane (THF) | 1 | 5 | 3 | 4 |
| Toluene | 1 | 1 | 0 | 0 |
| DISINFECTANTS | | | | |
| 1-propanol (Propylalcohol) | 6 | 6 | 2 | 3 |
| Deconclean | 6 | 6 | 6 | 6 |
| DeconSpore 200 Plus | 6 | 6 | 6 | 6 |
| Ethanol (Ethylalcohol) | 6 | 6 | 1 | 3 |
| Hydrogen Peroxide 30% | 6 | 6 | 4 | 6 |
| Isopropylalcohol IPA (2-propanol) | 6 | 6 | 3 | 4 |
| LpH se | 6 | 6 | 6 | 6 |
| Methanol | 6 | 6 | 2 | 3 |
| SporeKlenz | 6 | 6 | 6 | 6 |
| Vesphene IIse | 6 | 6 | 6 | 6 |

| Chemical | CSM Light Weight (0.4 mm) | CSM Heavy Weight (0.6 mm) | EPDM Light Weight (0.4 mm) | EPDM Heavy Weight (0.6 mm) | EPDM+ (0.5 mm) |
|-----------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|-------------------|
| SOLVENTS | | | | | |
| Acetone (2-Propanone) | 1 | 1 | 0 | 0 | 0 |
| C12/C13 alkanes | 6 | 6 | 2 | 3 | 2 |
| Chloroform | 1 | 1 | 0 | 0 | 1 |
| Diesel | 6 | 6 | 1 | 1 | |
| Diethylether (Ether) | 0 | 0 | 0 | 0 | 0 |
| Dimethylsulphoxide (DMSO) | 6 | 6 | 6 | 6 | |
| Ethylacetate | 0 | 0 | 0 | 0 | 0 |
| Hexane | 4 | 6 | 0 | 0 | 0 |
| Perchlorethylene | 1 | 1 | 0 | 0 | 0 |
| Sodium Hydroxide, NaOH 40% | 6 | 6 | 6 | 6 | 6 |
| Sulfuric acid 96% | 6 | 6 | 6 | 6 | 6 |
| Tetrahydrofurane (THF) | 0 | 0 | 0 | 0 | 0 |
| Toluene | 1 | 2 | 0 | 1 | 1 |
| DISINFECTANTS | | | | | |
| 1-Butanol (Butyl alcohol) | 6 | 6 | 2 | 2 | |
| 1-propanol (Propylalcohol) | 6 | 6 | 6 | 5 | |
| Klercide CR Biocide S | 6 | 6 | 6 | 6 | 6 |
| Klercide Y | 6 | 6 | 6 | 6 | 6 |
| Deconclean | 6 | 6 | 6 | 6 | 6 |
| DeconSpore 200 Plus | 6 | 6 | 6 | 6 | 6 |
| Ethanol (Ethylalcohol) | 6 | 6 | 6 | 6 | |
| Hydrogen Peroxide 30% | 6 | 6 | 6 | 6 | 6 |
| Isobutanol (Isobutylalcohol) | 6 | 6 | 6 | 6 | |
| Isopropylalcohol IPA (2-propanol) | 6 | 6 | 2 | 2 | 6 |
| LpH se | 6 | 6 | 6 | 6 | 6 |
| Methanol | 6 | 6 | 4 | 6 | 5 |
| SporeKlenz | 6 | 6 | 6 | 6 | 6 |
| Vesphene Ilse | 6 | 6 | 6 | 6 | 6 |

| Permeation Breakthrough Times According to EN374 (Minutes) | | | | | | |
|--|-------------------|-------|-------------------|---------|-----------------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| < 10 | 10-30 | 30-60 | 60-120 | 120-240 | 240-480 | > 480 |
| Not Recommended | Splash Protection | | Medium Protection | | High Protection | |



ISOLATOR GLOVES CHEMICAL PERMEATION

Cytotoxic/Cytostatic Drug Breakthrough Time Levels (ASTM D6978-05)

| Chemical | Concentration (mg/ml) | EPDM Light Duty | EPDM Heavy Duty | EPDM+ |
|--|-----------------------|-----------------|-----------------|-------|
| Chemotherapy Drugs (according to ASTM D6978-05) | | | | |
| Bleomycin sulfate | 15.0 | 5 | 5 | 5 |
| Carmustine | 3.3 | 1 | 1 | 1 |
| Cisplatin | 1.0 | 5 | 5 | 5 |
| Cyclophosphamide (Cytoxan) | 20.0 | 5 | 5 | 5 |
| Dacarbazine (DTIC) | 10.0 | 5 | 5 | 5 |
| Doxorubicin Hydrochloride | 2.0 | 5 | 5 | 5 |
| Epirubicin | 2.0 | 5 | 5 | 5 |
| Folinic Acid (Leucovorin) | 10.0 | 5 | 5 | 5 |
| Fluorouracil (Adrucil) | 50.0 | 5 | 5 | 5 |
| Mustine | 1.0 | 5 | 5 | 5 |
| Oxaliplatin | 5.0 | 5 | 5 | 5 |
| Procarbazine (Matulane) | 10.0 | 5 | 5 | 5 |
| Prednisolone | 15.0mg/5mL | 5 | 5 | 5 |
| ThioTEPA | 10.0 | 1 | 1 | 1 |
| Vinblastine | 1.0 | 5 | 5 | 5 |
| Vincristine sulfate | 1.0 | 5 | 5 | 5 |

| Permeation Breakthrough Times According to EN374 (Minutes) | | | | | | |
|--|-------------------|-------------------|-----------------|---------|---------|-------|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| < 10 | 10-30 | 30-60 | 60-120 | 120-240 | 240-480 | > 480 |
| Not Recommended | Splash Protection | Medium Protection | High Protection | | | |

Recommendations made in this note are based on laboratory test results and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.

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