

Ansell

AnsellGUARDIAN<sup>®</sup> Chemical Report

Ansell

Ansell



---

## Disclaimer

---

In this report, you will find information related to the barrier performance of certain personal protective equipment (PPE) against the chemicals you selected. This information is intended to enable the Health and Safety professional at your organization make more informed decisions about the Ansell PPE that may offer the greatest protection in the intended circumstances and assist with carrying out a risk assessment for your organization.

We wish to highlight that permeation times do not equate to safe wear time. Safe wear time may vary depending on whether the PPE is donned correctly, the surrounding temperature, the chemicals' toxicity, and other factors. Permeation information offered here is limited to the main protective material. Permeation times may vary around seams, zips, visors or any other joins or components of the PPE. It is the responsibility of your organization's Health and Safety professional to undertake a risk assessment before choosing the appropriate PPE for the task at hand. If you want to discuss any aspect in detail, please contact us.

*Estimations of the barrier properties of PPE are based on currently available data and extrapolations from laboratory test results and information regarding the chemicals' composition. Synergistic effects of mixing chemicals have not been accounted for. Estimations are subject to change if new testing is carried out or new information is available providing better grounds for extrapolations. For these reasons, any information in this report is provided for informational purposes only and Ansell fully disclaims any liability including warranties related to any statement contained herein.*

## Legend for Hand Protection

---

Permeation Breakthrough Times		
<10	Not Recommended	
10-30	Splash Protection	
30-60	Splash Protection	
60-120	Medium Protection	
120-240	Medium Protection	
240-480	Good Protection	
>480	Good Protection	

Permeation breakthrough time is the time (in minutes) for the chemical in question to be permeating through the material at a rate of  $1.0 \mu\text{g} / \text{cm}^2 / \text{min}$  (as per EN ISO 374) or  $0.1 \mu\text{g} / \text{cm}^2 / \text{min}$  (as per ASTM F739).

PS = Physical State: A = Aerosol, G = Gas, L = Liquid, P = Paste, S = Solid



Product Group : Neopro NPG-888  
 Brand : MICROFLEX®  
 Material : Neoprene  
 Thickness (mm) : 0.13 mm / 5.1 mil

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 and ASTM F739 standard. Colored cells with numbers and symbol (C) correspond to experimentally determined data generated by an accredited laboratory.

CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
51-21-8	5-Fluorouracil (50 mg/ml)	5.0	L		> 240' c
75-07-0	Acetaldehyde	100.0	L	< 1' c	
64-19-7	Acetic acid	50.0	L	> 120' c	
67-64-1	Acetone	100.0	L	3' c	
75-05-8	Acetonitrile	100.0	L	< 1' c	
79-06-1	Acrylamide, aqueous solution	40.0	L	> 480' c	
1336-21-6	Ammonium hydroxide	25.0	L	10' c	
71-43-2	Benzene	100.0	L	< 1' c	
9041-93-4	Bleomycin Sulfate	1.0	L	> 240' c	> 240' c
75-15-0	Carbon disulfide	100.0	L	< 1' c	
41575-94-4	Carboplatin	1.0	L		> 240' c
154-93-8	Carmustine (3.3 mg/ml)	0.33	L		55' c
67-66-3	Chloroform	100.0	L	< 1' c	
15663-27-1	Cisplatin (1 mg/ml)	0.1	L		> 240' c
50-18-0	Cyclophosphamide (20 mg/ml )	2.0	L		> 240' c
4342-03-4	Dacarbazine	1.0	L	> 240' c	> 240' c
23541-50-6	Daunorubicin Hydro chloride	0.5	L	> 240' c	> 240' c
109-89-7	Diethylamine	100.0	L	< 1' c	
60-29-7	Diethylether	100.0	L	2' c	
67-68-5	Dimethyl Sulfoxide	100.0	L	24' c	



Product Group : Neopro NPG-888  
 Brand : MICROFLEX®  
 Material : Neoprene  
 Thickness (mm) : 0.13 mm / 5.1 mil

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 and ASTM F739 standard. Colored cells with numbers and symbol (C) correspond to experimentally determined data generated by an accredited laboratory.

CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
68-12-2	Dimethylformamide	100.0	L	< 1' c	
25316-40-9	Doxorubicin hydrochloride (2 mg/ml)	0.2	L		> 240' c
64-17-5	Ethanol	100.0	L	17' c	
1239-45-8	Ethidumbromide, saturated aqueous solution	4.0	L	> 480' c	
141-78-6	Ethyl acetate	100.0	L	< 1' c	
33419-42-0	Etoposide (20 mg/ml)	2.0	L		> 240' c
50-00-0	Formaldehyde	50.0	L	> 480' c	
50-00-0	Formaldehyde	37.0	L	> 480' c	
7647-01-0	Hydrochloric acid	37.0	L	210' c	
57852-57-0	Idarubicin hydro chloride	5.0	L	> 240' c	> 240' c
3778-73-2	Ifosfamide (50 mg/ml)	5.0	L		> 240' c
148-82-3	Melphalan (5 mg/ml)	0.5	L		> 240' c
67-56-1	Methanol	100.0	L	< 1' c	
78-93-3	Methyl ethyl ketone	100.0	L	< 1' c	
80-62-6	Methyl methacrylate	100.0	L	< 1' c	
50-07-7	Mitomycin C (0.5 mg/ml)	0.01	L		> 240' c
4637-24-5	N,N-Dimethylformamide dimethyl acetal	100.0	L	2' c	
123-86-4	n-Butyl acetate	100.0	L	< 1' c	
110-54-3	n-Hexane	100.0	L	< 1' c	



Product Group : Neopro NPG-888  
 Brand : MICROFLEX®  
 Material : Neoprene  
 Thickness (mm) : 0.13 mm / 5.1 mil

The permeation breakthrough times present in this chart were evaluated according to the EN ISO 374 and ASTM F739 standard. Colored cells with numbers and symbol (C) correspond to experimentally determined data generated by an accredited laboratory.

CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
7697-37-2	Nitric acid	50.0	L	> 120' c	
7697-37-2	Nitric acid	70.0	L	15' c	
33069-62-4	Paclitaxel (6.0 mg/mL)	0.6	L		> 240' c
1310-73-2	Sodium Hydroxide	40.0	L	> 480' c	
109-99-9	Tetrahydrofuran	100.0	L	< 1' c	
52-24-4	thiotepa (10mg/ml )	1.0	L		14' c
76-03-9	Trichloroacetic acid, sat. solution	70.0	L	< 1' c	
121-44-8	Triethylamine	100.0	L	4' c	
76-05-1	Trifluoroacetic acid	100.0	L	6' c	
2068-78-2	Vincristine sulfate (1 mg/ml)	0.1	L		> 240' c
1330-20-7	Xylene, isomeric mixture	100.0	L	< 1' c	
	Electrolytic solution containing lithium hexafluorophosphate PG04		L		> 480' c