

Ansell

## AnsellGUARDIAN<sup>®</sup> Chemical Report

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## Disclaimer

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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 µg /cm<sup>2</sup>/min (as per EN ISO 374) or 0.1 µg /cm<sup>2</sup>/min (as per ASTM F739).

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



Product Group : 92-500/93-250  
 Brand : TouchNTuff®  
 Material : Nitrile  
 Thickness (mm) : 0.11 mm / 4.3 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
107-06-2	1,2-Dichloroethane	100.0	L	0' c	
2050-77-3	1-Iododecane	100.0	L	> 60' c	
115-20-8	2,2,2-Trichloroethanol	100.0	L	56' c	
540-84-1	2,2,4-Trimethylpentane	100.0	L	> 480' c	
95-49-8	2-Chlorotoluene	100.0	L	1' c	
110-80-5	2-Ethoxyethanol	100.0	L	5' c	4' c
122-99-6	2-Phenoxyethanol	3.0	L	34' c	30' c
107-85-7	3-Methylbutylamin	100.0	L	33' c	
51-21-8	5-Fluorouracil (50 mg/ml)	5.0	L		> 240' c
64-19-7	Acetic acid	100.0	L	7' c	
75-05-8	Acetonitrile	100.0	L	< 5' c	
79-06-1	Acrylamide, aqueous solution	40.0	L	> 480' c	
79-10-7	Acrylic acid	100.0	L	< 5' c	
107-05-1	Allyl chloride	100.0	L	< 5' c	
7664-41-7	Ammonia, gas	100.0	G	13' c	11' c
1336-21-6	Ammonium hydroxide	25.0	L	29' c	
62-53-3	Aniline	100.0	L	< 10' c	< 10' c
65-85-0	Benzoic Acid, sat. solution	1.0	L	> 480' c	> 480' c
100-51-6	Benzyl alcohol	100.0	L	10' c	
9041-93-4	Bleomycin Sulfate	1.0	L	> 240' c	> 240' c



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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
74-97-5	Bromochloromethane	100.0	L	88' c	
58-08-2	Caffeine, Saturated solution	2.0	L	> 480' c	
154361-50-9	Capecitabine (26mg/ml)	2.6	L		> 240' c
75-15-0	Carbon disulfide	100.0	L	< 5' c	
41575-94-4	Carboplatin	1.0	L		> 240' c
154-93-8	Carmustine (3.3 mg/ml)	0.33	L		66' c
25154-42-1	Chlorobutane, isomers	100.0	L	< 5' c	
15663-27-1	Cisplatin (1 mg/ml)	0.1	L		> 240' c
110-82-7	Cyclohexane	100.0	L	> 480' c	
108-94-1	Cyclohexanone	100.0	L	< 5' c	
50-18-0	Cyclophosphamide (20 mg/ml )	2.0	L		> 240' c
4342-03-4	Dacarbazine	1.0	L	> 240' c	> 240' c
106-93-4	Dibromoethane	100.0	L	< 1' c	
74-95-3	Dibromomethane	100.0	L	< 5' c	
111-92-2	Dibutylamine	100.0	L	50' c	41' c
1300-21-6	Dichloroethane	100.0	L	< 1' c	
68334-30-5	Diesel fuel	100.0	L	> 480' c	
109-89-7	Diethylamine	100.0	L	1' c	
60-29-7	Diethylether	100.0	L	< 1' c	
28454-70-8	Diisononylamin	100.0	L	10' c	



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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
108-20-3	Diisopropylether	100.0	L	34' c	
67-68-5	Dimethyl Sulfoxide	100.0	L	5' c	
927-62-8	Dimethylbutylamine	100.0	L	33' c	30' c
68-12-2	Dimethylformamide	100.0	L	< 5' c	
111-43-3	Dipropyl ether	100.0	L	< 5' c	
114977-28-5	Docetaxel (10 mg/ml)	1.0	L		> 240' c
25316-40-9	Doxorubicin hydrochloride (2 mg/ml)	0.2	L		> 240' c
56390-09-1	Epirubicin HCl (2mg/mL)	0.2	L		> 240' c
64-17-5	Ethanol	70.0	L	27' c	
64-17-5	Ethanol	95.0	L	16' c	
1239-45-8	Ethidiumbromide, 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	25.0	L	> 480' c	
50-00-0	Formaldehyde	35.0	L	> 480' c	
50-00-0	Formaldehyde	37.0	L	> 480' c	
8006-61-9	Gasoline, natural	100.0	L	84' c	
95058-81-4	Gemcitabine (38mg/ml)	3.8	L		> 240' c
111-30-8	Glutaraldehyde	50.0	L	> 480' c	



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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
142-82-5	Heptane	100.0	L	> 480' c	
392-56-3	Hexafluorobenzene	100.0	L	42' c	
7647-01-0	Hydrochloric acid	37.0	L	51' c	
7664-39-3	Hydrofluoric Acid	10.0	L	13' c	
7664-39-3	Hydrofluoric Acid	49.0	L	< 5' c	
10035-10-6	Hydrogen bromide, aqueous solutions	48.0	L	> 480' c	
7722-84-1	Hydrogen peroxide	30.0	L	120' c	
100286-90-6	Irinotecan (20 mg/ml)	2.0	L		> 240' c
78-81-9	Isobutylamine	100.0	L	< 10' c	
27775-00-4	Isononylamin	100.0	L	10' c	
67-63-0	Isopropanol	70.0	L	178' c	
67-63-0	Isopropanol	100.0	L	117' c	
67-56-1	Methanol	100.0	L	1' c	
59-05-2	Methotrexate (25mg/ml)	2.5	L		> 240' c
78-93-3	Methyl ethyl ketone	100.0	L	< 5' c	
108-10-1	Methyl Isobutyl Ketone	100.0	L	1' c	
80-62-6	Methyl methacrylate	100.0	L	2' c	
8004-87-3	Methyl violet	100.0	S	> 480' c	
65271-80-9	Mitoxantrone	0.2	L		> 240' c
121-69-7	N,N-Dimethylbenzenamine	100.0	L	< 10' c	< 10' c



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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
4637-24-5	N,N-Dimethylformamide dimethyl acetal	100.0	L	< 1' c	
71-36-3	n-Butanol	100.0	L	56' c	
109-73-9	n-Butylamine	100.0	L	< 10' c	< 10' c
1126-78-9	N-Butylaniline	100.0	L	< 10' c	< 10' c
110-68-9	N-Butylmethylamine	100.0	L	< 10' c	< 10' c
110-54-3	n-Hexane	100.0	L	> 480' c	
872-50-4	N-Methyl-2-pyrrolidone	100.0	L	< 1' c	< 1' c
100-61-8	N-Methylaniline	100.0	L	< 10' c	< 10' c
71-23-8	n-Propanol	100.0	L	21' c	
54-11-5	Nicotine	100.0	L	25' c	
7697-37-2	Nitric acid	50.0	L	9' c	
7697-37-2	Nitric acid	70.0	L	< 5' c	
111-86-4	Octylamine	100.0	L	10' c	< 10' c
61825-94-3	Oxaliplatin (5.0 mg/mL)	0.5	L		> 240' c
33069-62-4	Paclitaxel (6.0 mg/mL)	0.6	L		> 240' c
307-34-6	Perfluorooctane	100.0	L	> 480' c	
7664-38-2	Phosphoric acid	85.0	L	> 480' c	
88-89-1	Picric acid saturated solution	1.0	L	> 480' c	> 480' c
65996-93-2	Pitch, coal tar, high-temp.	99.0	P	> 480' c	> 480' c
65996-93-2	Pitch, coal tar, high-temp.	100.0	S	> 480' c	> 480' c





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107-98-2	Propylene Glycol-1-methylether	100.0	L	14' c	
174722-31-7	Rituximab (10mg/mL)	1.0	L		> 240' c
69-72-7	Salicylic acid	100.0	S	> 480' c	
1310-73-2	Sodium Hydroxide	40.0	L	> 480' c	
1310-73-2	Sodium Hydroxide, sat. sol.	50.0	L	> 480' c	
3019-89-4	Sodium m-cresolate	100.0	S	> 10' c	
7664-93-9	Sulfuric acid	50.0	L	> 480' c	
1634-04-4	Tert-Butyl Methyl Ether	100.0	L	14' c	
127-18-4	Tetrachloroethylene	100.0	L	8' c	
109-99-9	Tetrahydrofuran	100.0	L	< 5' c	
52-24-4	thiotepa (10mg/ml )	1.0	L		> 240' c
108-88-3	Toluene	100.0	L	1' c	
102-82-9	Tributylamine	100.0	L	> 480' c	> 480' c
121-44-8	Triethylamine	100.0	L	155' c	
71486-22-1	Vinorelbine	1.0	L		> 240' c
1330-20-7	Xylene, isomeric mixture	100.0	L	< 5' c	
	Diestone DLS		L	20' c	< 1' c
	Diestone SR		L	< 1' c	< 1' c
	Divinol CAF		L	> 480' c	> 480' c
	HYJET V		L	57' c	40' c



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CAS	Chemical Name	%	PS	EN ISO 374	ASTM F739
	Skydrol 5		L	136' C	80' C
	Skydrol 500 B Type 4		L	62' C	
	Skydrol LD4		L	54' C	< 1' C