

EN ISO 374

MATERIAL				Neoprene, Nitrile, NRL	
THICKNESS (MM)				0.45 mm	
CAS	CHEMICAL NAME	%	PS*		
107-87-9	2-Pentanone	100.0	L	8'	C
96-22-0	3-Pentanone	100.0	L	7'	C
64-19-7	Acetic acid	100.0	L	81'	C
67-64-1	Acetone	100.0	L	21'	C
75-05-8	Acetonitrile	99.8	L	48'	C
107-13-1	Acrylonitrile	100.0	L	29'	C
7664-41-7	Ammonia, gas	100.0	G	61'	C
1336-21-6	Ammonium hydroxide	25.0	L	71'	C
71-43-2	Benzene	100.0	L	7'	C
75-15-0	Carbon disulfide	100.0	L	2'	C
67-66-3	Chloroform	100.0	L	2'	C
108-93-0	Cyclohexanol	100.0	L	> 480'	C
108-94-1	Cyclohexanone	100.0	L	33'	C
75-09-2	Dichloromethane	100.0	L	2'	C
109-89-7	Diethylamine	100.0	L	3'	C
68-12-2	Dimethylformamide	100.0	L	70'	C
131-11-3	Dimethylphthalate	100.0	L	> 480'	C
64-17-5	Ethanol	70.0	L	> 480'	C
64-17-5	Ethanol	100.0	L	146'	C
141-78-6	Ethyl acetate	100.0	L	10'	C
50-00-0	Formaldehyde	37.0	L	> 480'	C
64-18-6	Formic acid	98.0	L	169'	C
142-82-5	Heptane	100.0	L	> 480'	C
7664-39-3	Hydrofluoric acid	40.0	L	> 480'	C
7722-84-1	Hydrogen peroxide	30.0	L	> 480'	C
67-63-0	Isopropanol	70.0	L	> 480'	C
67-63-0	Isopropanol	100.0	L	> 480'	C

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67-56-1	Methanol	100.0	L	78'	C
78-93-3	Methyl ethyl ketone	100.0	L	11'	C
108-10-1	Methyl isobutyl ketone	100.0	L	11'	C
80-62-6	Methyl methacrylate	100.0	L	11'	C
110-54-3	n-Hexane	100.0	L	60'	C
7697-37-2	Nitric acid	65.0	L	> 480'	C
8032-32-4	Petroleum ether	100.0	L	216'	C
108-95-2	Phenol	10.0	L	112'	C
7664-38-2	Phosphoric acid	85.0	L	> 480'	C
1310-73-2	Sodium hydroxide	40.0	L	> 480'	C
8052-41-3	Stoddard solvent	100.0	L	> 480'	C
100-42-5	Styrene	100.0	L	13'	C
7664-93-9	Sulfuric acid	96.0	L	168'	C
108-88-3	Toluene	100.0	L	4'	C
79-01-6	Trichloroethylene	100.0	L	3'	C
1330-20-7	Xylene, isomeric mixture	100.0	L	9'	C
	DIESTONE D		L	27'	C
	Diestone DLS		L	55'	C
	Diestone SR		L	45'	C
	Loctite Frekote 44NC		L	153'	C
	Skydrol 5		L	393'	C
	Skydrol 500 B Type 4		L	480'	C
	Skydrol LD4		L	324'	C
	Skydrol PE5		L	233'	C
	SOCOSOLV 99/1		L	15'	C
	White spirit		L	> 480'	C

PERMEATION BREAKTHROUGH TIMES (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	

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/cm²/min (as per EN ISO 374).

PS = Physical State,
G = Gas, L = Liquid

The information may comprise of experimental data, or estimations based on extrapolations from experimental data. This information is intended to enable the Health and Safety professional at your organization to be able to make more informed decisions about which Ansell products will offer the greatest protection in the intended circumstances, and assist with carrying out a risk assessment for your organization. Permeation times do not equate to safe wear time. Safe wear time may vary depending on whether or not the PPE is donned correctly, the temperature of the surroundings, the toxicity of the chemical, and a number of other factors. 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 would like to discuss any aspect in more detail, please contact us. Estimations of the barrier properties of gloves and PPE are based on extrapolations from laboratory test results and information regarding the composition of the chemicals. Synergistic effects of mixing chemicals have not been accounted for. Estimations are subject to change if new testing is carried out providing better grounds for extrapolations. For these reasons, any information in this report must be advisory only and Ansell fully disclaims any liability including warranties related to any statement contained herein.