



TouchNTuff™ 93-800

Chemical Permeation
Breakthrough Times

In addition to offering 15 times longer acetone resistance than standard nitrile disposable gloves, TouchNTuff 93-800 also provides reliable protection against a range of ketones and other chemicals.

EN ISO 374

MATERIAL				Neoprene, Nitrile, NRL		MATERIAL				Neoprene, Nitrile, NRL	
THICKNESS (MM)				0.45 mm		THICKNESS (MM)				0.45 mm	
CAS	CHEMICAL NAME	%	PS*			CAS	CHEMICAL NAME	%	PS*		
107-87-9	2-Pentanone	100.0	L	8'	C	67-56-1	Methanol	100.0	L	78'	C
96-22-0	3-Pentanone	100.0	L	7'	C	78-93-3	Methyl ethyl ketone	100.0	L	11'	C
64-19-7	Acetic acid	100.0	L	81'	C	108-10-1	Methyl isobutyl ketone	100.0	L	11'	C
67-64-1	Acetone	100.0	L	21'	C	80-62-6	Methyl methacrylate	100.0	L	11'	C
75-05-8	Acetonitrile	99.8	L	48'	C	110-54-3	n-Hexane	100.0	L	60'	C
107-13-1	Acrylonitrile	100.0	L	29'	C	7697-37-2	Nitric acid	65.0	L	> 480'	C
7664-41-7	Ammonia, gas	100.0	G	61'	C	872-50-4	N-Methyl-2-pyrrolidone	100.0	L	60'	C
1336-21-6	Ammonium hydroxide	25.0	L	71'	C	8032-32-4	Petroleum ether	100.0	L	216'	C
71-43-2	Benzene	100.0	L	7'	C	108-95-2	Phenol	10.0	L	112'	C
75-15-0	Carbon disulfide	100.0	L	2'	C	7664-38-2	Phosphoric acid	85.0	L	> 480'	C
67-66-3	Chloroform	100.0	L	2'	C	1310-73-2	Sodium hydroxide	40.0	L	> 480'	C
108-93-0	Cyclohexanol	100.0	L	> 480'	C	8052-41-3	Stoddard solvent	100.0	L	> 480'	C
108-94-1	Cyclohexanone	100.0	L	33'	C	100-42-5	Styrene	100.0	L	13'	C
75-09-2	Dichloromethane	100.0	L	2'	C	7664-93-9	Sulfuric acid	96.0	L	168'	C
109-89-7	Diethylamine	100.0	L	3'	C	108-88-3	Toluene	100.0	L	4'	C
68-12-2	Dimethylformamide	100.0	L	70'	C	79-01-6	Trichloroethylene	100.0	L	3'	C
131-11-3	Dimethylphthalate	100.0	L	> 480'	C	1330-20-7	Xylene, isomeric mixture	100.0	L	9'	C
64-17-5	Ethanol	70.0	L	> 480'	C		DIESTONE D		L	27'	C
64-17-5	Ethanol	100.0	L	146'	C		Diestone DLS		L	55'	C
141-78-6	Ethyl acetate	100.0	L	10'	C		Diestone SR		L	45'	C
50-00-0	Formaldehyde	37.0	L	> 480'	C		Loctite Frekote 44NC		L	153'	C
64-18-6	Formic acid	98.0	L	169'	C		Skydrol 5		L	393'	C
142-82-5	Heptane	100.0	L	> 480'	C		Skydrol 500 B Type 4		L	480'	C
7664-39-3	Hydrofluoric acid	40.0	L	> 480'	C		Skydrol LD4		L	324'	C
7722-84-1	Hydrogen peroxide	30.0	L	> 480'	C		Skydrol PE5		L	233'	C
67-63-0	Isopropanol	70.0	L	> 480'	C		SOCOSOLV 99/1		L	15'	C
67-63-0	Isopropanol	100.0	L	> 480'	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.