

Chemical Handling Glove Guide

A guide to help you choose the right glove from Ansell's extensive range of specialist gloves designed to ensure optimal protection without compromising productivity.



Reusable chemical gloves – permeation breakthrough times in minutes

	Product	Barrier®	Barrier® PVA™ Sol-Vex®		AlphaTec® Virtex®		Neotop™ Scorpio®		Chemi-Pro™	ChemTek™			
	Draduat and	2-100	15-554	37-185	37-175	58-530 58-535	58-270	79-700	29-500	8-354	224	38-612	38-514
	Product code	2-100	15-554	37-103	37-175	56-555	36-270	79-700	29-500	0-354	Neoprene /	30-012	30-314
	Material	Laminated film	Polyvinyl alcohol	Niti	ile	Niti	rile	Nitrile	Neoprene	Neoprene	Natural rubber blend	Viton® / butyl	Butyl
Chemical name	CAS†		4.000.						посргоно	пооргоно	Tubbot blond	Then 7 Buty.	<i>5</i> ,.
1-Methoxy-2-Propanol	107-98-2	> 480	> 480	240 - 480	236	120 - 240	60 - 120	10 - 30	30 - 60	60 - 120	10 - 30	> 480	N/A
1-Methoxy-2-propylacetate	108-65-6	> 480	> 480	120 - 240	132	120 - 240	60 - 120	< 10	10 - 30	10 - 30	< 10	120 - 240	N/A
Acetic acid, glacial	64-19-7	> 480	< 10	190	61	104	30 - 60	9	193	> 480	129	> 480	> 480
Acetone	67-64-1	> 480	37	10 - 30	7	6	< 10	< 5	17	< 5	8	60 - 120	428
Acetonitrile	75-05-8	> 480	145	20	11	13	< 10	< 5	34	28	14	60 - 120	> 480
Acrylic acid	79-10-7	> 480	< 10	30 - 60	40	30 - 60	10 - 30	< 5	64	> 480	60 - 120	> 480	N/A
Acrylonitrile	107-13-1	> 480	> 480	< 10	< 10	6	< 10	< 10	15	43	9	> 480	N/A
Allyl alcohol	107-18-6	> 480	< 10	30 - 60	51	30 - 60	10 - 30	10 - 30	120 - 240	240 - 480	10 - 30	120 - 240	N/A
Ammonium Hydroxide, 25%	1336-21-6	27		> 480 (50%)	> 480	265	120 - 240	48	> 480	> 480	> 480	> 480	N/A
Benzene	71-43-2	> 480	> 480	28	22	14	< 10	< 5	10	< 5	< 10	240 - 480	9
Benzoylchloride	98-88-4	> 480	> 480	> 10	< 10	< 10		< 10	< 10	< 10	< 10	N/A	N/A
Bromopropionic acid	590-92-1	> 480	< 10	> 480*	> 480*	> 480*	> 480*	120 - 240*	> 480	> 480	> 480	> 480	N/A
Butyl acetate	123-86-4	> 480	> 480	60 - 120	47	49	10 - 30	< 5	23	9	10 - 30	< 10	N/A
Butyl alcohol	71-36-3	> 480	60 - 120	> 480	> 480	> 480	> 480	> 480	> 480	> 480	120	> 480	N/A
Carbon disulfide	75-15-0	> 480	> 480	< 5	12	10 - 30	< 10	< 10	< 5	< 5	< 5	120 - 240	< 5
Carbon Tetrachloride	56-23-5	240 - 480	> 480	240 - 480	240 - 480	240 - 480	120 - 240	10 - 30	< 10	< 10	< 10	> 480	N/A
Chloroform	67-66-3	32	> 480	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	120 - 240	N/A
Coal tar	8007-45-2	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	10 - 30	< 10	N/A	N/A
Crude oil	68308-34-9	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	10 - 30	< 10	N/A	N/A
Cyclohexanol	108-93-0	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	> 480	N/A
Cyclohexanone	108-94-1	> 480	> 480	113	42	55	10 - 30	6	39	51	30 - 60	120 - 240	N/A
Dibutyl Phtalate	84-74-2	240 - 480	> 480	> 480	> 480	> 480	> 480	240 - 480	60 - 120	60 - 120	10 - 30	> 480	N/A
Diesel fuel	68334-30-5	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	10 - 30	< 10	> 480	N/A
Diethylamine	109-89-7	> 480	11	79	17	28	10 - 30	< 5	9	< 5	< 5	10 - 30	< 5
Dimethyl Sulfoxide	67-68-5	> 480	< 10	240 - 480	> 120	120 - 240	60 - 120	> 10	> 480	> 480	> 480	> 480	N/A
Dimethylformamide	68-12-2	> 480	13	43	< 5	18	< 10	< 5	58	35	99	> 480	N/A
Ethanol	64-17-5	> 480	< 10	> 480	170	240 - 480	120 - 240	30 - 60	350	> 480	20	> 480	N/A
Ethyl acetate	141-78-6	> 480	> 480	29	18	15	< 10	< 5	10	16	9	< 10	43
Ethylamine	75-04-7	> 480	240 - 480	60 - 120	85	60 - 120	30 - 60	30 - 60	60 - 120	60 - 120	10 - 30	N/A	N/A
Ethylglycol acetate	111-15-9	> 480	> 480	129	60 - 120	60 - 120	30 - 60	10 - 30	31	30 - 60	21	60 - 120	N/A
Formaldehyde, 35%	50-00-0	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480
Formic acid, 98-100%	64-18-6	> 480	< 10	30 - 60	22	30 - 60	10 - 30	< 10	> 480	> 480	108	< 10	N/A
Freon TF	76-13-1	> 480	> 480	> 480	> 480	> 480	> 480	60 - 120	10 - 30	240 - 480	> 10	N/A	N/A
Gamma Butyrolactone	96-48-0	> 480	120 - 240	10 - 30	< 10	< 10	< 10	< 10	120 - 240	120 - 240	240 - 480	> 480	N/A
Gasoline	8006-61-9	> 480	> 480	240 - 480	134	120 - 240	60 - 120	60 - 120	10 - 30	30 - 60	< 10	> 480	N/A
Glutaraldehyde, 50%	111-30-8	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	< 10	N/A
Heptane	142-82-5	> 480	> 480	> 480	> 480	> 480	> 480	> 480	27	15	< 10	> 480	5
Hexamethyldisilazane	999-97-3	> 480	> 480	> 480	> 480	> 480	> 480	120 - 240	30 - 60	30 - 60	67	> 480	N/A
Hexane	110-54-3	> 480	> 480	> 480	> 480	> 480	> 480	> 480	27	78	< 5	> 480	N/A
Hydrochloric acid, 37%	7647-01-0	> 480	< 10	> 480	> 480	> 480	> 480	394	> 480	> 480	> 480	> 480	N/A
Hydrofluoric acid, 48%	7664-39-3	> 480	< 10	120 - 240*	179*	120 - 240*	60 - 120*	< 10	> 480	>480	> 480	> 480	N/A
Hydrogen Fluoride anhydrous	7664-39-3	90	< 10	< 10	1	< 10	< 10	< 10	6.5	25	< 10	> 480	N/A
Hydrogen Peroxide, 30%	7722-84-1	> 480	< 10	> 480	> 480	> 480	> 480	140	> 480	> 480	> 480	N/A	N/A
Iso-octane	540-84-1	> 480	> 480	> 480	> 480	> 480	> 480	> 480	150	> 480	30 - 60	> 480	N/A
Isophorone	78-59-1	> 480	> 480	240 - 480	120 - 240	120 - 240	60 - 120	10 - 30	30 - 60	60 - 120	10 - 30	N/A	N/A
Isopropanol	67-63-0	> 480	55	> 480	> 480	> 480	> 480	96	120 - 240	240 - 480	80	> 480	N/A
Kerosene	64742-81-0	> 480	> 480	> 480	> 480	> 480	> 480	> 480	240 - 480	> 480	60 - 120	N/A	N/A
Maleic acid, aquous solution	110-16-7	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A	N/A
Methanol	67-56-1	> 480		129	28	70	30 - 60	6	116	154	41	240 - 480	> 480
Methyl ethyl ketone	78-93-3	> 480	41	13	5	7	< 10	< 5	9	5	7	10 - 30	76
Methyl Isobutyl Ketone	108-10-1	> 480	60 - 120	10 - 30	27	< 10		< 10	13	16	9	10 - 30	N/A
Methylamine, 40%	74-89-5	> 480	< 10	> 480	> 480	> 480	> 480	10 - 30	> 480	> 480	10 - 30	> 480	N/A
Methylenechloride	75-09-2	16	> 480	4	2	< 10			4	< 10	1	10 - 30	N/A
Methylmethacrylate	80-62-6	> 480	240 - 480	10 - 30	19	10 - 30	< 10	< 10	10	8		< 10	N/A
Methyl-t-butyl Ether	1634-04-4	> 480	> 480	> 480	> 480	> 480	> 480	60 - 120	< 10	10 - 30	< 10		N/A

Reusable chemical gloves – permeation breakthrough times in minutes

	Product Barrier® PVA™ Sol-Vex® Alpha1		ıaTec®	Virtex®	Neotop™	Scorpio®	Chemi-Pro™ Chem		ſek™				
	Product code	2-100	15-554	37-185	37-175	58-530 58-535	58-270	79-700	29-500	8-354	224	38-612	38-514
	7.104401.0040			07 100	07.170	00 000	00 270	70 700	20 000	0 00 1	Neoprene /	55 5.2	55511
	Material	Laminated film	Polyvinyl alcohol	Nit	rile	N	itrile	Nitrile	Neoprene	Neoprene	Natural rubber blend	Viton® / butyl	Butyl
Chemical name	CAS [†]							1			1		
Mineral oil	8012-95-1	> 480	> 480	> 480	> 480	> 480	> 480	120 - 240	10 - 30	30 - 60	10 - 30	> 480	N/A
Monochlorobenzene	108-90-7	> 480	> 480	10 - 30	< 10	< 10	< 10	< 10	< 10	< 10	< 10	> 480	N/A
Monoethanolamine	141-43-5	> 480	240 - 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A	N/A
Naphta VM&P	8030-30-6	> 480	> 480	> 480	84	60 - 120	30 - 60	30 - 60	30 - 60	60 - 120	10 - 30	> 480	N/A
Nitric acid, 70%	7697-37-2	> 480	< 10	60 - 120*	40*	53*	10 - 30*	< 5	> 480	> 480	235	> 480	N/A
Nitrobenzene	98-95-3	> 480	> 480	305	105	60 - 120	30 - 60	10 - 30	< 10	< 10	< 10	> 480	N/A
N-methyl-2-pyrrolidone	872-50-4	> 480	< 10	10 - 30	10 - 30	10 - 30	< 10	< 10	10 - 30	10 - 30	26	< 10	N/A
n-Undecane	1120-21-4	> 480	> 480	> 480	> 480	> 480	> 480	> 480	60 - 120	120 - 240	30 - 60	N/A	N/A
Octyl alcohol	111-87-5	> 480	> 480	> 480	> 480	> 480	> 480	240 - 480	120 - 240	120 - 240	> 480	> 480	N/A
Oxalic acid, aquous solution	144-62-7	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	< 10	N/A
Peracetic acid, 39%	79-21-0	> 480	1	60 - 120	55	124	30 - 60	20	300	> 480	62	N/A	N/A
Perchloroethylene	127-18-4	> 480	> 480	397	136	133	60 - 120	12	17	4	10 - 30	> 480	N/A
Phenol	108-95-2	> 480	> 480	60 - 120	64	78	10 - 30	< 10	> 480	> 480	202	> 480	> 480
Phosphoric acid, conc.	7664-38-2	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A
Piperazine, aquous solution	110-85-0	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A	N/A
Propanol	71-23-8	> 480	68	> 480	> 480	> 480	> 480	30 - 60	> 480	> 480	120 - 240	> 480	N/A
Propionitrile	107-12-0	> 480	> 480	10 - 30			< 10		10 - 30	98	< 10	N/A	N/A
Propylacetate	109-60-4	> 480	> 480	10 - 30	20	10 - 30	< 10			< 10	< 10	<10	N/A
Propylene Glycol	57-55-6	> 480	> 480	> 480	> 480	> 480	> 480	60 - 120	> 480	> 480	> 480	N/A	N/A
Pyridine	110-86-1	> 480	8	10 - 30	10	10 - 30	< 10	< 10	12	< 10	1	< 10	179
Sodium Hydroxide, 50%	1310-73-2	> 480	< 5	> 480	> 480	> 480	> 480 (40%)	> 480 (40%)	> 480	> 480	> 480	> 480	> 480
Stoddard Solvent	8052-41-3	> 480	> 480	> 480	> 480	> 480	> 480	> 480	120 - 240	240 - 480	10 - 30	> 480	N/A
Styrene	100-42-5	> 480	> 480	31	24	19	< 10	< 5	9	< 5	8	> 480	N/A
Sulphuric Acid, 96%	7664-93-9	> 480	< 5	127*	63*	55*	38.6*	13	201	302 (95%)	149	> 480	146
Tetrahydrofuran	109-99-9	> 480	52	10 - 30	6	< 10	< 10	< 10		< 5	< 10		5
Tetrahydrothiophene	110-01-0	> 480	> 480	66	12	10 - 30	< 10		11	7	< 10	N/A	N/A
Thionylchloride	2125597	120 - 240	120 - 240	< 10	< 10	< 10	< 10		< 10	< 10	< 10	N/A	N/A
Toluene	108-88-3	> 480	> 480	54	23	19	< 10			< 5		240 - 480	< 5
Trichloroethylene	79-01-6	> 480	> 480	10 - 30	12	10 - 30	< 10			< 10	3	120 - 240	< 5
Tricresyl Phosphate	1330-78-5	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A
Triethanolamine	102-71-6	> 480	240 - 480	> 480	> 480	240 - 480	240 - 480	60 - 120	> 480	> 480	240 - 480	N/A	N/A
Triethylamine	121-44-8	> 480	> 480	> 480	> 480	> 480	> 480	100	23	< 5	5	N/A	N/A
White Spirit	64742-88-7	> 480	> 480	> 480	> 480	> 480	> 480	240 - 480	48	60 - 120	10	N/A	N/A
Xylene	1330-20-7	> 480	> 480	90	56	41	10 - 30	< 5	8	17	< 10	> 480	N/A
Bisphenol A	80-05-7	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A	N/A
Butylglycol	111-76-2	> 480	120 - 240	240 - 480	240 - 480	240 - 480	120 - 240	10 - 30	120 - 240	> 480	30 - 60	> 480	N/A
Distillate (petroleum), hydrotreated light	64742-47-8	> 480	> 480	> 480	> 480	> 480	> 480	240 - 480	10 - 30	30 - 60	10 - 30	N/A	N/A
Ethyl Glycol	110-80-5	> 480	< 10	120 - 240	120 - 240	120 - 240	60 - 120	30 - 60	60 - 120	290	10 - 30	240 - 480	N/A
Ethylbenzene	96-33-3	> 480	> 480	10 - 30	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
Ethylene Glycol	107-21-1	> 480	120 - 240	> 480	> 480	> 480	> 480	60 - 120	> 480	> 480	> 480	> 480	N/A
Methyl acrylate	96-33-3	> 480	> 480	10 - 30	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
Naphta (petroleum) hydrotreated light	64742-49-0	> 480	> 480	> 480	> 480	> 480	> 480	120 - 240	10 - 30	60 - 120	10 - 30	> 480	N/A
Naphta (petroleum), hydrodesulfurized heavy	64742-82-1	> 480	> 480	240 - 480	240 - 480	240 - 480	120 - 240	10 - 30	10 - 30	10 - 30	< 10	N/A	N/A
Propan-2-ol	67-63-0	> 480	55	> 480	> 480	> 480	> 480	96	120 - 240	240 - 480	80	> 480	N/A

Permeation break	through times accordi	ng to EN374-3:2003	> Grea			
EN374-3 = 6	EN374-3 = 5	EN374-3 = 4	EN374-3 = 3	EN374-3 = 2	EN374-3 = 1	EN374-3 = 0
> 480 mins	240 – 480 mins	120 – 240 mins	60 – 120 mins	30 – 60 mins	10 – 30 mins	< 10 mins
High protection		Medium protection		Splash protection		Not recommended

[†] CAS registry numbers are unique numerical identifiers for chemical elements, compounds, polymers, biological sequences, mixtures and alloys. CAS (Chemical Abstracts Service), a division of the American Chemical Society, assigns these identifiers to every chemical.

^{*} Despite high breakthrough time, degradation might occur prematurely. Only recommended as splash protection.

Disposable gloves for chemical use*

Product		Touch N Tuff®			Fresh Touch®			Conform®		
Product code	92-500 / 600 / 605				840 / 850 / 851		844			
Material		Nitrile		Vinyl			Natural rubber latex			
Rating type	Degradation	Permeation breakthrough times in minutes	Permeation	Degradation	Permeation breakthrough times in minutes	Permeation	Degradation	Permeation breakthrough times in minutes	Permeation	
Chemical name										
Acetaldehyde	Р	-	_	NR	_	-	E	< 10	F	
Acetic Acid	E	10	_	G	45	-	E	10	_	
Acetone	NR	-	_	NR	_	_	Р	_	_	
Acetonitrile	F	< 10	G	NR	_	-	G	< 10	G	
Ammonium Fluoride	E	_	_	E	240	_	Е	360	_	
Ammonium Hydroxide	G	20	_	E	240	_	E	11	_	
Aniline	NR	_	_	G	20	VG	E	< 10	G	
Butyl Acetate	NR	_	_	NR	_	_	NR	_	_	
Butyl Alcohol	G	475	G	VG	< 10	F	E	< 10	G	
Butyl Cellosolve	NR	-	_	Р	_	_	E	< 10	F	
Citric Acid, 10%	E	> 480	_	E	> 360	_	E	> 480	_	
Cyclohexanol	E	_	_	E	60	E	E	< 10	G	
Dimethyl Formamide	NR	-	_	NR	_	_	E	< 10	G	
Dimethyl Sulfoxide	F	10	E	NR	_	_	NR	_	_	
Ethanolamine	E	> 480	_	E	120	_	E	120	_	
Ethyl Acetate	NR	-	_	NR	_	_	G	< 10	F	
Ethyl Alcohol	F	10	VG	VG	< 10	F	E	< 10	VG	
Ethylene Dichloride	NR	_	_	NR	_	_	NR	_	_	
Ethylene Glycol	E	38	G	E	45	VG	_	_	_	
Ethyl Ether	G	< 10	G	Р	_	_	F	< 10	Р	
Formaldehyde	E	> 480	E	E	20	VG	E	< 10	E	
Gasoline (Shell 92 oct.)	F	< 10	G	Р	_	_	NR	_	_	
Hexane	E	> 480	E	NR	_	_	NR	< 10	F	
Hydrazine	E	< 10	F	E	> 360	E	G	25	F	
Hydrochloric Acid, conc.	E	78	_	G	> 360	_	E	55	_	
Hydrogen Peroxide, 30%	E	200	_	E	> 360	E	E	> 480	E	
Isobutyl Alcohol	G	61	VG	G	10	VG	E	< 10	F	
Isopropyl Alcohol	E	10	VG	VG	< 10	F	E	< 10	VG	
Kerosene	E	> 480	_	G	30	G	NR	_	_	
Maleic Acid, saturated	E	> 480	_	VG	> 360	_	_	_	_	
Methyl Alcohol	E	< 10	G	VG	10	G	E	< 10	VG	
Methyl Ethyl Ketone	NR	-	-	NR	-	-	F	< 10	F	
Methylene Chloride	NR	-	-	NR	-	-	NR	-	_	
Nitric Acid, 10%	E	> 480	E	VG	> 360	E	G	> 480	E	
Octyl Alcohol	E	350	E	G	9	E			-	
Perchloroethylene	G	10	G	Р			NR		-	
Phenol	NR	-		G	30	VG			-	
Phosphoric Acid, 85%				G	> 360		F	> 480	-	
Propyl Alcohol	E	125	VG	G	< 10	F	E	< 10	G	
Sodium Hydroxide, 50%	E	> 480	-	E	> 360	-	E	> 480	_	
Stoddard Solvent	E	> 480		G	40	E	NR		-	
Sulfuric Acid, 47%	E	> 480		G	> 480		E	> 480	-	
Tricresyl Phosphate	G	10	F	G	> 360	E			-	
Triethanolamine, 85%	Р			E	> 360	E	E	> 480	-	
Xylene, Xylol	G	< 10	F	NR	_	_	NR	-	_	

E	Excellent					
VG	Very Good					
G	Good					
F	Fair					
Р	Poor					
NR	Not Recommended					

	Experimental carcinogens [^]
	Suspected carcinogens [^]
	Well suited
	Suitable under careful control
	Avoid use

[#] Disposable gloves are intended for single use only.

[^] The chemicals in this guide highlighted in light blue are experimental carcinogens, according to the ninth edition of Sax's Dangerous Properties of Industrial Materials. Chemicals highlighted in grey are listed as suspected carcinogens, experimental carcinogens at extremely high dosages, and other materials which pose a lesser risk of cancer.

When the job calls for chemical protection, Ansell has the right glove for your application.

Our extensive range of gloves include products that offer splash protection for minimal chemical exposure and products that provide protection for applications involving full chemical immersion.

By utilising numerous polymer types, our gloves protect against a wide variety of chemicals and liquids. They also offer varying levels of cut, tear, abrasion, puncture and thermal resistance.

Choose from nitrile, neoprene, natural rubber latex, PVC, PVA, laminated film, vinyl, butyl or Viton®/butyl gloves.

Designed with comfort and dexterity in mind, Ansell has a wide variety of disposable and reusable options available.

Make your chemical glove selection by following this simple step-by-step process

Step 1: Which glove material is required for the right protection?

The first, and most important, step is to determine what type of glove and its polymer composition is required to handle the specific chemical.

Use the chemical handling chart to check out the suitability of the glove material, such as nitrile, natural rubber latex, PVC, PVA, neoprene, laminated film, vinyl, butyl or Viton®/butyl, and how it performs with the chemicals you are working with. This will help you identify the Ansell glove that best protects against specific chemicals by providing test results from Ansell's ASTM standard permeation and degradation resistance.

Step 2: Which glove construction works best for your applications?

You need to evaluate the physical characteristics to determine the most suitable glove construction. Your choice should depend on the performance level required.

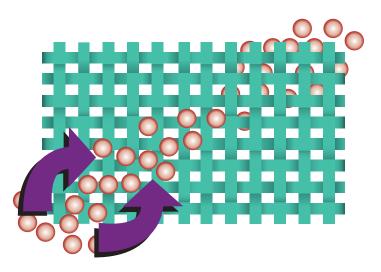
For example, the degree of contact with the chemical (immersion or splash) and whether grip is important. There are three basic options to consider:

- Disposable, for basic protection with frequent changing:
 - these gloves are very thin and should only be used for light duty work where frequent changes will occur; and
 - suitable where basic splash protection is needed.
- A longer lasting, unsupported glove where tactility, flexibility and dexterity are important:
 - these gloves, without an internal material lining, are designed to allow for good dexterity, tactility and flexibility; and
 - unsupported gloves are ideal for applications requiring the handling of small components.
- A **supported** glove, which contains a cotton liner for heavy-duty use:
 - gloves with an inner liner, typically made from knitted cotton, are suited for heavy-duty applications; and
 - supported gloves are thicker and designed for durability. They do not necessarily offer better chemical resistance than disposable and non-supported gloves; and
 - the cotton liners, however, do provide more comfort and sweat absorption.

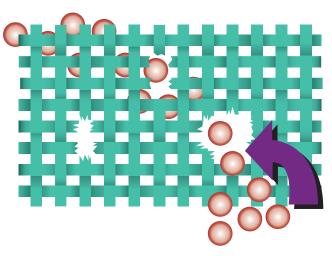
Step 3: Which glove option, based on features, suits the user?

Ansell has one of the industry's broadest and deepest chemical glove ranges. Having determined which glove material and construction is needed, you now have to decide which features you require – such as grip, style, length, thickness, glove lining, colour and so on. Again, your primary use or requirement must be the key decision driver.

For specific details on our gloves we recommend that you check our product catalogue, which you can review or download online at www.ansellasiapacific.com/home, or, call our Customer Service and request a copy.



Permeation is a process by which a chemical can pass through a protective film.



Degradation is a reduction in one or more physical properties of a glove material.

Questions and answers

Q1. Why is a product with a shorter breakthrough time sometimes given a better rating then one with a longer breakthrough time?

One glove may have a breakthrough time of just 4 minutes and be rated 'very good' while another with a breakthrough time of 30 minutes is rated only as 'fair'. Why?

The reason is simple: in some cases the rating is more significant than the time. A combination of a short breakthrough time and a low permeation rate may expose a glove wearer to less chemical then a combination of a longer breakthrough rate, if the glove is worn long enough.

Q2. What factors should you consider?

You need to know more than just the name of the chemical. If, for example, an employee is working with nitric acid, then PVC (vinyl) and neoprene are the preferred glove materials. Several questions however, must still be answered. For example:

- is the worker cleaning up spills? If so, you will need highly chemical-resistant gloves with good storage stability;
- is the person handling abrasive materials? If so, the worker may need a glove with an abrasion-resistant coating; and
- is the employee working with a pure chemical or a diluted solution? And if the chemical is diluted, what solvent has been used?

The above scenarios give you an idea of the questions you need to consider as part of your decision making process.

Q3. How important is it to trial the gloves being recommended?

Our chemical handling charts are intended to guide and inform your workplace safety decisions. Because the conditions of ultimate use are beyond our control, and because we cannot run permeation tests in all possible work environments and across all combinations of chemical and solutions, our recommendations are advisory only. To demonstrate a particular glove's 'fit for purpose', we recommend practical trials before a decision is made. You should verify that the glove selected is suitable for the intended use and meets all health standards. Upon request we will consider providing samples for trials.

Q4. Is there a quick and easy way to find a recommended shortlist of gloves?

If you already know the CAS (Chemical Abstract Service) number or the chemical agent's name, you can fast track your search by using our glove selector Search tool at www.ansellasiapacific.com/chemical-glove-guide.

Australia: Level 3, 678 Victoria Street, Richmond, Victoria 3121

Telephone: 1800 337 041 Facsimile: 1800 803 578

China: Room 903-905, Hongwell Tower, No. 1600 Zhongshan

West Road, Shanghai 200 235 Telephone: +86 21 2407 2286 Facsimile: +86 21 5407 1107

Malaysia: Lot 16, Persiaran Perusahaaan Section 23,

Shah Alam 40000

Telephone: +60 3 5541 9797 Facsimile: +60 3 5549 4397

Japan: 2nd Floor, Ochanomizu Wing Building,

15-13 Hongo 2-chrome, Bunkyo-ku,

Tokyo 113 0033

Telephone: +81 3 5805 3781 Facsimile: +81 3 5800 6171

Email: protection@ap.ansell.com



Scan this Quick Response (QR) code with your mobile device installed with a QR code reader app to take you to our website or visit us at

www.ansell.com.au www.ansellasiapacific.com

Use product only as specified. Products that provide 'cut resistance', 'cut protection', 'puncture resistance', 'puncture protection', 'abrasion resistance' or 'abrasion protection' do not completely prevent or eliminate the potential for cuts, punctures or abrasions, and are not intended or tested to provide protection against powered blades, serrated or other sharp or rotating equipment. Products that provide protection against chemicals are not 'chemical proof' and do not completely prevent or eliminate the potential for chemical burns or associated injuries. Users are encouraged to always use caution and care when handling sharp or abrasive materials, chemicals or other hazardous or dangerous substances.

The data and recommendations contained in this guide are based on the results of laboratory tests, and reflect the best judgment of Ansell in the light of data available at the time of preparation. They are intended to guide and inform qualified professionals engaged in assuring safety in the workplace. As the conditions of ultimate use are beyond our control, and because we cannot run tests in all possible work environments, these recommendations are advisory only. The suitability of a product for a specific application must be determined by testing by the purchaser.

The data in this guide is subject to revision as additional knowledge and experience are gained. Test data herein reflects laboratory performance of partial gloves and not necessarily the complete unit. Anyone intending to use these recommendations should first verify that the glove selected is suitable for the intended use and meets all appropriate health standards. Upon written request, Ansell will provide a sample of material to aid you in making your own selection under your own individual safety requirements.

Neither this guide nor any other statement made herein by or on behalf of Ansell should be construed as a representation or warranty of merchantability, or that any Ansell glove is fit for a particular purpose. Ansell assumes no responsibility for any reliance on this guide or for the suitability or adequacy of an end-user's selection of a product for a specific application.

