

# Chemical Compatibility Guide for: Ansell Alphatec Solvex 37-185 Nitrile Gloves

The guide on the following page(s) was provided by the supplier.  
New Pig Corporation assumes no responsibility, obligation, or  
liability in conjunction with the use or misuse of the information.



**New Pig**

One Pork Avenue  
Tipton, PA 16684-0304

**newpig.com**

North America: **1-800-468-4647**

Europe: **+31 (0)76 596 92 50**

China: **+86-21-400 921 5178**

UK: **0800 919 900**

Outside North America: **+1-814-684-0101**

PIG, PIG logo are registered trademarks in USA and other countries. See [tm.newpig.com](http://tm.newpig.com)

New Pig Corporation

## AnsellGUARDIAN® Chemical Report

New Pig Corporation

May 13, 2024

**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 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

# New Pig Corporation



Product Group : 37-185.165/58-008  
 Brand : AlphaTec® Solvex®  
 Material : Nitrile  
 Thickness (mm) : 0.56 mm / 22 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
687-47-8	(-)-Ethyl L-lactate	100.0	L		273' c
138495-42-8	1,1,1,2,3,4,4,5,5,5-Decafluoropentane	100.0	L		> 480' c
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100.0	L	> 480' c	> 360' c
111-78-4	1,5-Cyclooctadiene	100.0	L		> 480' c
106-94-5	1-Bromopropane	100.0	L		23' c
108-65-6	1-Methoxy-2-Propylacetate	100.0	L		200' c
71-41-0	1-Pentanol	100.0	L		> 480' c
540-84-1	2,2,4-Trimethylpentane	100.0	L		> 360' c
598-72-1	2-Bromopropionic Acid	100.0	L		120' c
111-76-2	2-Butoxyethanol	100.0	L		470' c
95-49-8	2-Chlorotoluene	100.0	L	54' c	
110-80-5	2-Ethoxyethanol	100.0	L		293' c
110-43-0	2-Heptanone	100.0	L		56' c
78-83-1	2-Methyl-1-propanol	100.0	L		> 360' c
64-19-7	Acetic acid	100.0	L	190' c	158' c
75-05-8	Acetonitrile	100.0	L	20' c	30' c
79-10-7	Acrylic acid	100.0	L		120' c
107-18-6	Allyl alcohol	100.0	L		140' c
12125-01-8	Ammonium fluoride, aqueous solution	40.0	L		> 360' c
1336-21-6	Ammonium hydroxide	33.0	L		> 360' c

## New Pig Corporation



Product Group : 37-185.165/58-008  
 Brand : AlphaTec® Solvex®  
 Material : Nitrile  
 Thickness (mm) : 0.56 mm / 22 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
628-63-7	Amyl acetate	100.0	L		198' C
8007-56-5	Aqua Regia	100.0	L		> 360' C
71-43-2	Benzene	100.0	L	32' C	
98-07-7	Benzotrichloride	100.0	L		> 480' C
98-08-8	Benzotrifluoride	100.0	L		170' C
112-34-5	Butyldiglycol	100.0	L		> 323' C
75-15-0	Carbon disulfide	100.0	L	< 5' C	
56-23-5	Carbon tetrachloride	100.0	L		150' C
77-92-9	Citric acid aqueous solution	10.0	L		> 360' C
502-42-1	Cycloheptanone	100.0	L		103' C
110-82-7	Cyclohexane	100.0	L		> 360' C
108-93-0	Cyclohexanol	100.0	L		> 360' C
108-94-1	Cyclohexanone	100.0	L	113' C	103' C
117-84-0	Di-n-octylphthalate	100.0	L		> 360' C
123-42-2	Diacetone Alcohol	100.0	L		240' C
84-74-2	Dibutyl phthalate	100.0	L		> 360' C
109-89-7	Diethylamine	100.0	L	55' C	51' C
60-29-7	Diethylether	100.0	L		95' C
108-83-8	Diisobutyl ketone	100.0	L		263' C
67-68-5	Dimethyl Sulfoxide	100.0	L		240' C

## New Pig Corporation



Product Group : 37-185.165/58-008  
 Brand : AlphaTec® Solvex®  
 Material : Nitrile  
 Thickness (mm) : 0.56 mm / 22 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	43' C	
5989-27-5	Dipentene ((+)-Limonene)	100.0	L		> 480' C
138-86-3	Dipentene (isomeric form not specified)	100.0	L		> 480' C
141-43-5	Ethanolamine	100.0	L		> 360' C
1239-45-8	Ethidiumbromide, saturated aqueous solution	4.0	L		> 480' C
141-78-6	Ethyl acetate	100.0	L	18' C	17' C
111-15-9	Ethyl glycol ethyl ether acetate	100.0	L	129' C	90' C
97-64-3	Ethyl lactate	100.0	L		273' C
107-21-1	Ethylene Glycol	100.0	L		> 360' C
109-86-4	Ethylene glycol monomethyl ether	100.0	L		208' C
50-00-0	Formaldehyde	37.0	L	> 480' C	
64-18-6	Formic acid	90.0	L		240' C
142-82-5	Heptane	100.0	L	> 480' C	
999-97-3	Hexamethyldisilazane	100.0	L		> 360' C
7803-57-8	Hydrazine monohydrate, 64%-65% hydrazine	98.0	L		> 480' C
7647-01-0	Hydrochloric acid	37.0	L	> 480' C	> 480' C
7722-84-1	Hydrogen peroxide	30.0	L	368' C	> 360' C
123-31-9	Hydroquinone, sat. solution	6.0	L		> 360' C
6303-21-5	Hypophosphorus Acid	50.0	L		> 480' C

# New Pig Corporation



Product Group : 37-185.165/58-008  
 Brand : AlphaTec® Solvex®  
 Material : Nitrile  
 Thickness (mm) : 0.56 mm / 22 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
67-63-0	Isopropanol	100.0	L		> 360' c
8008-20-6	Kerosene	100.0	L		> 360' c
64742-81-0	Kerosine, hydrodesulphurised	100.0	L		> 360' c
110-16-7	Maleic acid, sat. sol.	33.0	L		> 360' c
7439-97-6	Mercury	100.0	L		480' c
67-56-1	Methanol	100.0	L	94' c	
110-12-3	Methyl Isoamyl Ketone	100.0	L		45' c
108-10-1	Methyl isobutyl ketone	70.0	L		45' c
80-62-6	Methyl methacrylate	100.0	L		35' c
74-89-5	Methylamine, 40% aqueous solution	40.0	L		> 360' c
64475-85-0	Mineral Spirits, Rule 66	100.0	L		> 480' c
71-36-3	n-Butanol	100.0	L		> 360' c
123-86-4	n-Butyl acetate	100.0	L		75' c
110-54-3	n-Hexane	100.0	L	> 480' c	> 480' c
109-66-0	n-Pentane	100.0	L		> 360' c
71-23-8	n-Propanol	100.0	L		> 360' c
109-60-4	n-Propyl acetate	100.0	L		20' c
8030-30-6	Naphtha	100.0	L		> 360' c
7697-37-2	Nitric acid	10.0	L		> 360' c
7697-37-2	Nitric Acid	30.0	L		> 360' c

## New Pig Corporation



Product Group : 37-185.165/58-008  
 Brand : AlphaTec® Solvex®  
 Material : Nitrile  
 Thickness (mm) : 0.56 mm / 22 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
98-95-3	Nitrobenzene	100.0	L	305' c	
75-52-5	Nitromethane	100.0	L		30' c
111-87-5	Octyl alcohol	100.0	L		> 360' c
112-80-1	Oleic acid	100.0	L		> 360' c
144-62-7	Oxalic acid, sat. sol	10.0	L		> 360' c
98-56-6	p-Chlorbenzotrifluoride	100.0	L		320' c
7601-90-3	Perchloric acid	60.0	L		> 360' c
7664-38-2	Phosphoric acid	85.0	L		> 360' c
1310-58-3	Potassium Hydroxide, aqueous solutions	30.0	L		> 360' c
74-98-6	Propane	100.0	G		> 480' c
1310-73-2	Sodium Hydroxide	40.0	L	> 480' c	
1310-73-2	Sodium Hydroxide, sat. sol.	50.0	L	> 480' c	
8052-41-3	Stoddard solvent	100.0	L		> 360' c
100-42-5	Styrene	100.0	L	31' c	
10545-99-0	Sulfur Dichloride	100.0	L		> 480' c
7664-93-9	Sulfuric acid	96.0	L	165' c	
1401-55-4	Tannic acid, aqueous solution	65.0	L		> 360' c
1634-04-4	Tert-Butyl Methyl Ether	100.0	L		> 360' c
127-18-4	Tetrachloroethylene	100.0	L	397' c	361' c
110-01-0	Tetrahydrothiophene	100.0	L	66' c	

New Pig Corporation



Product Group : 37-185.165/58-008

Brand : AlphaTec® Solvex®

Material : Nitrile

Thickness (mm) : 0.56 mm / 22 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
108-88-3	Toluene	100.0	L	54' c	34' c
102-70-5	Triallylamine	100.0	L		> 480' c
1330-78-5	Tricresyl phosphate, isomeric mixture	100.0	L		> 360' c
102-71-6	Triethanolamine	100.0	L	> 480' c	> 360' c
121-44-8	Triethylamine	100.0	L		> 360' c
8006-64-2	Turpentine (oil)	100.0	L		> 480' c
108-05-4	Vinyl acetate	100.0	L		18' c
1330-20-7	Xylene, isomeric mixture	100.0	L	98' c	96' c