



## CHEMICAL HANDLING GLOVE GUIDE

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

## OVERVIEW

When the job calls for chemical protection, Ansell has the right glove for your application. Our broad range of gloves includes 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 along with offering 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 that meet your chemical protection needs. Each one is designed using the latest technology with comfort and dexterity in mind. A wide variety of disposable and reusable options are available, making it easy to find gloves that offer protection and affordability.

# EN GUIDE SUMMARY

## EUROPEAN GLOVE STANDARDS FOR PROTECTIVE GLOVES

Ansell is dedicated to supporting the highest available regulatory standards. Ansell gloves sold in Europe have been certified as per the European Union's Personal Protective Equipment Directive (PPE 89/686/EEC) and relevant EN standards, and are CE marked. As many of our gloves comply with the European standards, these are explained in this section.

### EN420 – General requirements



This pictogram indicates that the user has to consult the 'instructions for use'.

### EN388 – Mechanical protection



Performance levels	1	2	3	4	5
A. Abrasion resistance (cycles)	100	500	2000	8000	-
B. Blade cut resistance (index)	1.2	2.5	5.0	10.0	20.0
C. Tear resistance (newton)	10	25	50	75	-
D. Puncture resistance (newton)	20	60	100	150	-

### EN374 – Chemical protection and/or micro-organisms

#### Micro-organisms



EN level  $\geq 2$

#### Performance levels

AQL (Acceptable Quality Level for liquid penetration. A high index number is poor and a low index number is good).

1	2	3
4.0	1.5	0.65

#### Chemical protection



Breakthrough time > 30 minutes for at least three chemicals from this list (XYZ represent the code letters for three of these chemicals for which the glove obtained > 30 minutes breakthrough time).

A. Methanol  
B. Acetone  
C. Acetonitrile  
D. Dichloromethane  
E. Carbon disulphide  
F. Toluene  
G. Diethylamine  
H. Tetrahydrofurane  
I. Ethyl acetate  
J. n-Heptane  
K. Sodium hydroxide 40%  
L. Sulphuric acid 96%

Performance levels	0	1	2	3	4	5	6
Minutes	< 10	10	30	60	120	240	> 480

#### Chemical resistance against chemicals of choice (AQL <4)



This pictogram can be used for gloves that don't meet the above requirement and have an AQL of two or lower.


Note: The CE marking is a mandatory conformity mark, certifying that a product has met the European Union's consumer, safety and/or environmental requirements. The initials CE do not stand for any specific words.

# EN GUIDE SUMMARY


## EUROPEAN GLOVE STANDARDS FOR PROTECTIVE GLOVES

### CONTINUED

#### EN407 – Heat protection

 ABCDEF	Performance levels	1	2	3	4
	A. Burning behaviour (after flame and after glow time)	< 20secs no requirement	< 10secs < 120secs	< 3secs < 25secs	< 2secs < 5secs
	B. Contact heat (contact temperature and threshold time)	100°C < 15secs	250°C < 15secs	350°C < 15secs	500°C < 15secs
	C. Convective heat (heat transfer delay)	> 4secs	> 7secs	> 10secs	> 18secs
	D. Radiant heat (heat transfer delay)	> 7secs	> 20secs	> 50secs	> 95secs
	E. Small drops molten metal (number drops)	> 10	> 15	> 25	> 35
	F. Large quantity molten metal (mass)	30g	60g	120g	200g

#### EN511 – Cold protection

 ABC	Performance levels	0	1	2	3	4
	A. Convective cold Thermal insulation ITR in m2. °C/W	< 0.10	0.10< <0.15	0.15< 0.22	0.22< <0.30	0.30<
	B. Contact cold Thermal resistance R in m2. °C/W	R<0.025	0.025<R<0.050	0.050<R<0.100	0.100<R<0.150	0.150<R
	C. Water penetration test	Fail	Pass	-	-	-

Note: 0 is the lowest rating while 4 is the highest.

#### EN421 – Radioactive contamination + ionizing radiation

 ABCDEF	Gloves protecting from direct contact with radio-active substances.		Gloves protecting from direct contact with radiations (X-ray, alpha-, beta-, gamma- or neutron radiations).
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# EN GUIDE EXPLANATION OF THREE RISK CATEGORIES ACCORDING TO EUROPEAN LEGISLATION

## **Complying with the PPE directive: 89/686/EEC**

The directive specifies two classes of gloves meeting two levels of risk: 'minimal' and 'mortal' or 'irreversible' risk. A risk which falls between these two levels may be described as 'intermediate'. To comply with the 89/686/EEC Directive, you must establish the level of risk and select gloves of the appropriate class. A system of marking has been developed to help you in that selection.

### **Risk Category I: Gloves of simple design**

#### **For minimal risk only**

For gloves of simple design offering protection from low level risks, e.g. janitorial gloves, manufacturers are permitted to test and certify gloves internally (i.e. there is no requirement for testing and certification by an independent body).

### **Risk Category II: Gloves of intermediate design**

#### **For intermediate risk**

Gloves designed to protect against intermediate risk, e.g. general handling gloves requiring good cut, puncture and abrasion performance, must be subjected to independent testing and certification by a notified body. Only these approved bodies may issue a CE mark, without which the gloves may not be sold. Each notified body has its own identification number. The name and address of the notified body that certifies the product has to appear on the instructions for use that will accompany the gloves. Gloves of this category are CE marked as follows:

**CE**

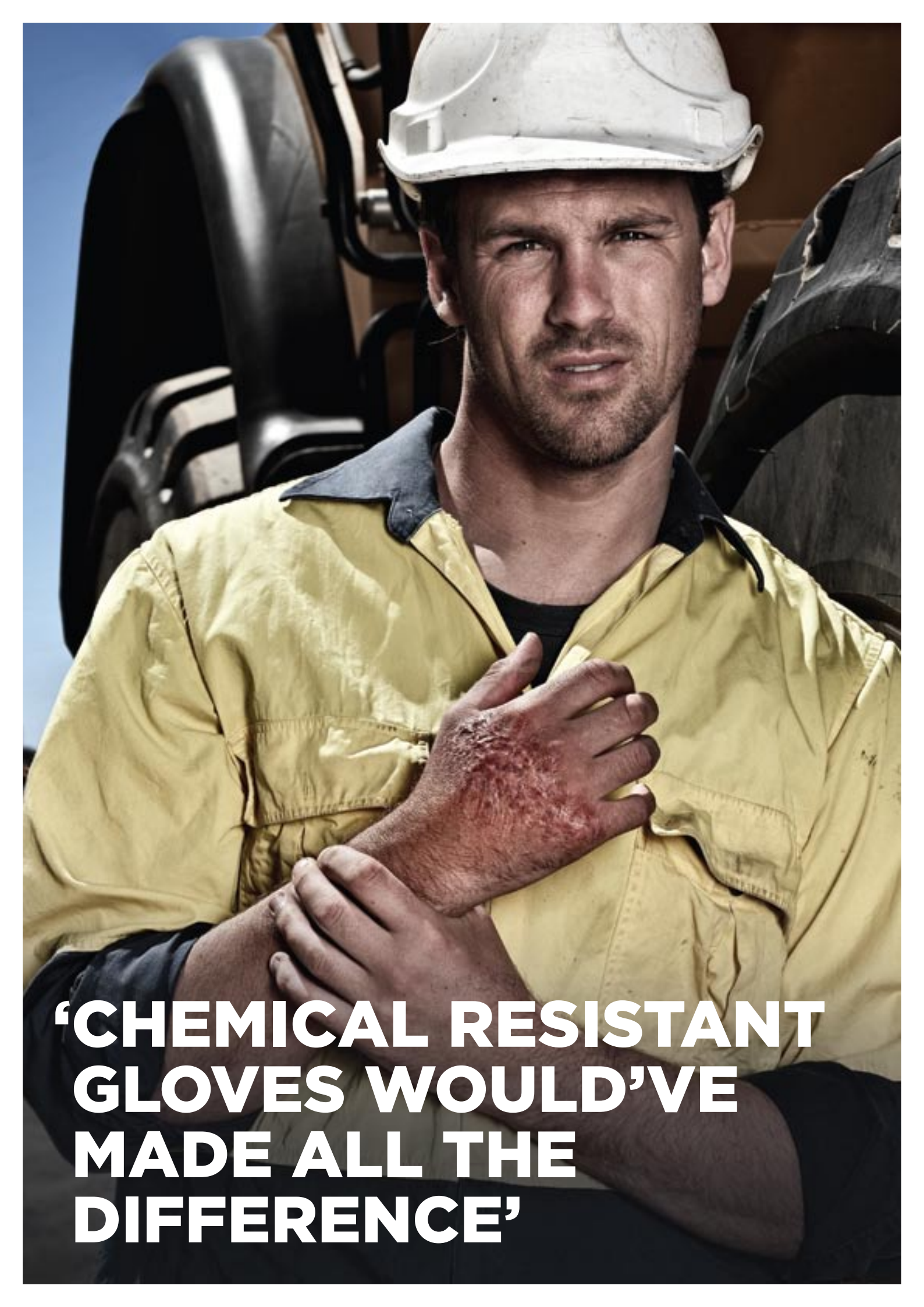
### **Risk Category III: Gloves of complex design**

#### **For irreversible or mortal risk**

Gloves designed to protect against the highest levels of risk e.g. chemicals, must also be tested and certified by a notified body. In addition, the quality assurance system used by the manufacturer to guarantee homogeneity of production or the quality consistency testing of the final product must be independently checked. The body carrying out this evaluation will be identified by a number which must appear alongside the CE mark (in this case, 0493). Gloves of complex design are CE marked as follows:

**CE 0493**



A man in a white hard hat and yellow protective suit is shown from the chest up. He has a serious expression and is looking directly at the camera. His right hand is raised, showing a severe, red, and blistered chemical burn on the back of the hand and wrist. His left hand is resting on his right forearm. The background is slightly out of focus, showing industrial equipment and a clear blue sky.

**‘CHEMICAL RESISTANT  
GLOVES WOULD’VE  
MADE ALL THE  
DIFFERENCE’**

# WHEN THE JOB CALLS FOR CHEMICAL PROTECTION, ANSELL HAS THE RIGHT GLOVE FOR YOUR APPLICATION

When hands are at risk from chemical exposure, Ansell has one of the industry's most comprehensive specialist glove ranges.

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.

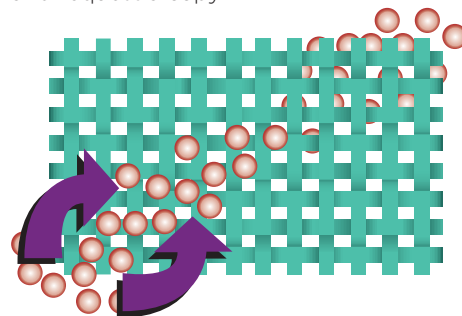
For example, the degree of contact with the chemical (immersion or splash) and whether grip is important. There are three basic options to consider:

- **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.

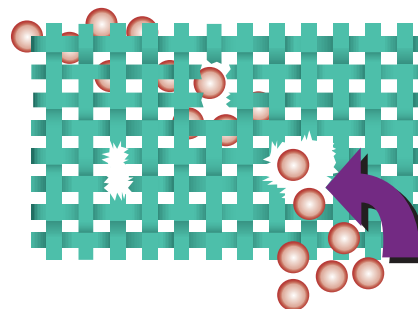
### Step 3: Which glove option, based on features, suits the user?

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](http://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 at molecular level.



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

# REUSABLE CHEMICAL GLOVES – PERMEATION BREAKTHROUGH TIMES IN MINUTES

	Product	Barrier <sup>†</sup>	PVA <sup>†</sup>	Sol-Vex <sup>†</sup>		AlphaTec <sup>†</sup>				Virtex <sup>†</sup>	Neotop <sup>†</sup>	Scorpio <sup>†</sup>	Chemi-Pro <sup>†</sup>	Chem-Tek <sup>†</sup>
	Product code	2-100	15-554	37-185	37-175	58-330	58-335	58-530 58-535	58-270	79-700	29-500	8-354	224	38-612
	Material	Lami-nated film	Polyvinyl alcohol	Nitrile		Nitrile				Nitrile	Neoprene	Neoprene	Neoprene /Natural rubber blend	Viton <sup>†</sup> / butyl
Chemical name	CAS <sup>†</sup>													
1-Methoxy-2-Propanol	107-98-2	> 480	> 480	240 - 480	236	240 - 480	236	120 - 240	60 - 120	10 - 30	30 - 60	60 - 120	10 - 30	> 480
1-Methoxy-2-propylacetate	108-65-6	> 480	> 480	120 - 240	132	120 - 240	132	120 - 240	60 - 120	< 10	10 - 30	10 - 30	< 10	120 - 240
Acetic acid, glacial	64-19-7	> 480	< 10	190	61	190	61	104	30 - 60	9	193	> 480	129	> 480
Acetone	67-64-1	> 480	37	10 - 30	7	10 - 30	7	6	< 10	< 5	17	< 5	8	60 - 120
Acetonitrile	75-05-8	> 480	145	20	11	20	11	13	< 10	< 5	34	28	14	60 - 120
Acrylic acid	79-10-7	> 480	< 10	30 - 60	40	30 - 60	40	30 - 60	10 - 30	< 5	64	> 480	60 - 120	> 480
Acrylonitrile	107-13-1	> 480	> 480	< 10	< 10	< 10	< 10	6	< 10	< 10	15	43	9	> 480
Allyl alcohol	107-18-6	> 480	< 10	30 - 60	51	30 - 60	51	30 - 60	10 - 30	10 - 30	120 - 240	240 - 480	10 - 30	120 - 240
Ammonium Hydroxide, 25%	1336-21-6	27		> 480 (50%)	> 480	> 480 (50%)	> 480	265	120 - 240	48	> 480	> 480	> 480	> 480
Benzene	71-43-2	> 480	> 480	28	22	28	22	14	< 10	< 5	10	< 5	< 10	240 - 480
Benzoylchloride	98-88-4	> 480	> 480	> 10	< 10	> 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
Bromopropionic acid	590-92-1	> 480	< 10	> 480*	> 480*	> 480*	> 480*	> 480*	> 480*	120 - 240*	> 480	> 480	> 480	> 480
Butyl acetate	123-86-4	> 480	> 480	60 - 120	47	60 - 120	47	49	10 - 30	< 5	23	9	10 - 30	< 10
Butyl alcohol	71-36-3	> 480	60 - 120	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	120	> 480
Carbon disulfide	75-15-0	> 480	> 480	< 5	12	< 5	12	10 - 30	< 10	< 10	< 5	< 5	< 5	120 - 240
Carbon Tetrachloride	56-23-5	240 - 480	> 480	240 - 480	240 - 480	240 - 480	240 - 480	240 - 480	120 - 240	10 - 30	< 10	< 10	< 10	> 480
Chloroform	67-66-3	32	> 480	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	120 - 240
Coal tar	8007-45-2	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	10 - 30	< 10	N/A
Crude oil	68308-34-9	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	10 - 30	< 10	N/A
Cyclohexanol	108-93-0	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	> 480
Cyclohexanone	108-94-1	> 480	> 480	113	42	113	42	55	10 - 30	6	39	51	30 - 60	120 - 240
Dibutyl Phtalate	84-74-2	240 - 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	240 - 480	60 - 120	60 - 120	10 - 30	> 480
Diesel fuel	68334-30-5	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	10 - 30	< 10	> 480
Diethylamine	109-89-7	> 480	11	79	17	79	17	28	10 - 30	< 5	9	< 5	< 5	10 - 30
Dimethyl Sulfoxide	67-68-5	> 480	< 10	240 - 480	> 120	240 - 480	> 120	120 - 240	60 - 120	> 10	> 480	> 480	> 480	> 480
Dimethylformamide	68-12-2	> 480	13	43	< 5	43	< 5	18	< 10	< 5	58	35	99	> 480
Ethanol	64-17-5	> 480	< 10	> 480	170	> 480	170	240 - 480	120 - 240	30 - 60	350	> 480	20	> 480
Ethyl acetate	141-78-6	> 480	> 480	29	18	29	18	15	< 10	< 5	10	16	9	< 10
Ethylamine	75-04-7	> 480	240 - 480	60 - 120	85	60 - 120	85	60 - 120	30 - 60	30 - 60	60 - 120	60 - 120	10 - 30	N/A
Ethylglycol acetate	111-15-9	> 480	> 480	129	60 - 120	129	60 - 120	60 - 120	30 - 60	10 - 30	31	30 - 60	21	60 - 120
Formaldehyde, 35%	50-00-0	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480
Formic acid, 98-100%	64-18-6	> 480	< 10	30 - 60	22	30 - 60	22	30 - 60	10 - 30	< 10	> 480	> 480	108	< 10
Freon TF	76-13-1	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	60 - 120	10 - 30	240 - 480	> 10	N/A
Gamma Butyrolactone	96-48-0	> 480	120 - 240	10 - 30	< 10	10 - 30	< 10	< 10	< 10	< 10	120 - 240	120 - 240	240 - 480	> 480
Gasoline	8006-61-9	> 480	> 480	240 - 480	134	240 - 480	134	120 - 240	60 - 120	60 - 120	10 - 30	30 - 60	< 10	> 480
Glutaraldehyde, 50%	111-30-8	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	< 10
Heptane	142-82-5	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	27	15	< 10	> 480
Hexamethyldisilazane	999-97-3	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	120 - 240	30 - 60	30 - 60	67	> 480
Hexane	110-54-3	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	27	78	< 5	> 480
Hydrochloric acid, 37%	7647-01-0	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	394	> 480	> 480	> 480	> 480
Hydrofluoric acid, 48%	7664-39-3	> 480	< 10	120 - 240*	179*	120 - 240*	179*	120 - 240*	60 - 120*	< 10	> 480	> 480	> 480	> 480
Hydrogen Fluoride anhydrous	7664-39-3	90	< 10	< 10	1	< 10	1	< 10	< 10	< 10	6.5	25	< 10	> 480
Hydrogen Peroxide, 30%	7722-84-1	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	140	> 480	> 480	> 480	N/A
Iso-octane	540-84-1	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	150	> 480	30 - 60	> 480
Isophorone	78-59-1	> 480	> 480	240 - 480	120 - 240	240 - 480	120 - 240	120 - 240	60 - 120	10 - 30	30 - 60	60 - 120	10 - 30	N/A
Isopropanol	67-63-0	> 480	55	> 480	> 480	> 480	> 480	> 480	> 480	96	120 - 240	240 - 480	80	> 480
Kerosene	64742-81-0	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	240 - 480	> 480	60 - 120	N/A
Maleic acid, aqueous solution	110-16-7	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	N/A
Methanol	67-56-1	> 480	5	129	28	129	28	70	30 - 60	6	116	154	41	240 - 480
Methyl ethyl ketone	78-93-3	> 480	41	13	5	13	5	7	< 10	< 5	9	5	7	10 - 30
Methyl Isobutyl Ketone	108-10-1	> 480	60 - 120	10 - 30	27	10 - 30	27	< 10	< 10	< 10	13	16	9	10 - 30
Methylamine, 40%	74-89-5	> 480	< 10	> 480	> 480	> 480	> 480	> 480	> 480	10 - 30	> 480	> 480	10 - 30	> 480
Methylenechloride	75-09-2	16	> 480	4	2	4	2	< 10	< 10	< 10	4	< 10	1	10 - 30
Methylmethacrylate	80-62-6	> 480	240 - 480	10 - 30	19	10 - 30	19	10 - 30	< 10	< 10	10	8	< 10	< 10
Methyl-t-butyl Ether	1634-04-4	> 480	> 480	> 480	> 480	> 480	> 480	> 480	> 480	60 - 120	< 10	10 - 30	< 10	< 10



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

Permeation breakthrough times according to EN374-3:2003							> Greater than (time) < Less than (time)
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	

<sup>†</sup> 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.

N/A Not Available (no test data).

# DISPOSABLE GLOVES FOR CHEMICAL USE<sup>#</sup>

Product	Touch N Tuff <sup>*</sup>			Fresh Touch <sup>*</sup>			Conform <sup>*</sup>		
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	P	-	-	NR	-	-	E	< 10	F
Acetic Acid	E	10	-	G	45	-	E	10	-
Acetone	NR	-	-	NR	-	-	P	-	-
Acetonitrile	F	< 10	G	NR	-	-	G	< 10	G
Ammonium Fluoride	E	-	-	E	240	-	E	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	-	-	P	-	-	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	P	-	-	F	< 10	P
Formaldehyde	E	> 480	E	E	20	VG	E	< 10	E
Gasoline (Shell 92 oct.)	F	< 10	G	P	-	-	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	P	-	-	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%	P	-	-	E	> 360	E	E	> 480	-
Xylene, Xylol	G	< 10	F	NR	-	-	NR	-	-

E	Excellent	Experimental carcinogens <sup>*</sup>
VG	Very Good	Suspected carcinogens <sup>*</sup>
G	Good	Well suited
F	Fair	Suitable under careful control
P	Poor	Avoid use
NR	Not Recommended	

<sup>#</sup> Disposable gloves are intended for single use only.






<sup>\*</sup> 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.

# PRODUCT SPECIFICATIONS

## Other polymers

### Product comparison and selection

Consult this chart to compare characteristics of Ansell gloves.

 Polyvinyl alcohol	 Butyl	 Laminated film (polyethelene nylon)
 Polyvinyl chloride	 Viton®/butyl	 Natural rubber

These gloves are not recommended for ketones and many other types of solvents.

Use/glove	Style no	Coating material	Liner material	Cuff style	Grip design	Length	Thickness	Powder free
 Immersion								
Barrier®	2-100	Multi-layered laminated film	Unlined	Safety	Smooth	380 – 410mm	0.062mm	N/A
ChemTek™	38-514	Butyl	Unlined	Beaded	Rough	356mm	0.35mm	N/A
	38-612	Viton®/butyl	Unlined	Beaded	Smooth	305mm	0.30mm	N/A
PVA™	15-554	PVA	Cotton	Gauntlet	Smooth	355mm	N/A	N/A
 Splash								
SuperFlex™ Blue	4-644	PVC	Cotton	Safety	Rough	300mm	1.6mm	N/A
SuperFlex™ Brown	4-662	PVC	Cotton	Safety	Rough	300mm	1.0mm	N/A

## Nitrile


As an industry leader in the manufacturing of nitrile gloves, Ansell provides the best protection solutions against bases, oils, many solvents and animal fats. Our nitrile gloves also offer excellent resistance to snags and punctures, abrasions and cuts for a thin polymer glove. Use this chart to compare properties of our performance series and classic brands.

Use/glove	Style no	Liner material	Cuff style	Grip design	Length	Thickness	Powder free
 Immersion							
AlphaTec®	58-270	Nylon	Safety	Textured	300mm	N/A	N/A
	58-530	Acrylic	Safety	Textured	305mm	N/A	N/A
	58-535	Acrylic	Safety	Textured	356mm	N/A	N/A
SolVex®	37-145	Unlined	Safety	Sand patch	330mm	0.28mm	N/A
	37-175	Flocked	Safety	Sand patch	330mm	0.38mm	N/A
	37-185	Unlined	Gauntlet	Sand patch	455mm	0.56mm	N/A
Virtex®	79-700	Flocked	Safety	Lozenge	310mm	0.225mm (0.200mm nitrile shell and 0.025mm inner coating)	N/A
 Splash							
Touch N Tuff®	92-500	N/A	Beaded	Textured	240mm	0.11mm	No
	92-600	N/A	Beaded	Smooth	240mm	0.11mm	Yes
	92-605	N/A	Beaded	Smooth	300mm	0.11mm	Yes

## PRODUCT SPECIFICATIONS CONTINUED

### Neoprene

Neoprene resists a broad range of oils, acids, caustics and solvents, but is less resistant to snags, punctures, abrasions and cuts than nitrile or natural rubber. This chart shows the characteristics of our neoprene gloves, making it easy to find the right choice for your application.

Use/glove	Style no	Liner material	Cuff style	Grip design	Length	Thickness	Powder free
 Immersion							
Neotop™	29-500	Flocked	Safety	Lozenge	330mm	0.75mm	N/A
Scorpio®	8-354	Cotton	Safety	Rough	350mm	N/A	N/A

### Natural rubber latex

With great flexibility and good resistance to many acids and alcohols, Ansell's natural rubber latex gloves make a comfortable choice for chemical and liquid protection. Compare gloves using this chart to determine which rubber glove works best for you.

Products containing natural rubber latex may cause allergic reactions and should not be used when lubricants and/or oils are present.

Use/glove	Style no	Liner material	Cuff style	Grip design	Length	Thickness	Powder free
 Immersion							
Chemi-Pro™	224X	Flocked	Safety	Lozenge	320mm	0.68mm	N/A
Conform®	844X	N/A	Beaded	Smooth	240mm	0.13mm	No

## Barrier® 2-100

LF Laminated film  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
Barrier® 2-100	Fully coated	Unlined	Multi-layered laminated film	Safety	White	8, 9, 10	0.062mm	380–410mm	12 pairs in a bag 6 bags in a carton



### Good resistance against a wide range of hydrocarbons

- Chemical resistant, five layered laminated glove.
- Hand-specific and ergonomic design.
- Wide spectrum resistance.
- 100% inspected. Each glove is individually air-pressure tested.
- AQL 0.65 (EN374).

### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Defence and first responder
- Pharmaceuticals

### Ideal applications

- Aerospace
- Automotive
- Emergency services
- Environmental cleanup
- General chemical industry
- Laboratory analysis
- Pharmaceuticals
- Aviation



EN374 ABC  
EN374  
Risk Category III  
Testing compliant to AS/NZS 2161

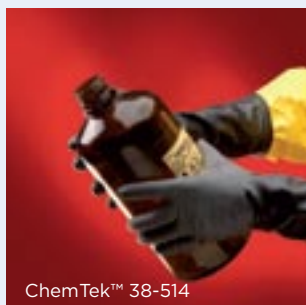


# PRODUCT DETAILS

## ChemTek™ 38-514, 38-612

VB BU Viton®/butyl  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
ChemTek™ 38-514	Fully coated	Unlined	Butyl	Beaded	Black	7, 8, 9, 10, 11	0.35mm	356mm	36 pairs in a carton individually wrapped
ChemTek™ 38-612	Fully coated	Unlined	Viton®/butyl	Beaded	Black	8, 9, 10	0.30mm	305mm	36 pairs in a carton individually wrapped



ChemTek™ 38-514

### Maximum protection from hazardous chemicals

- The ChemTek™ glove range provides the best resistance to the most aggressive chemicals – without compromising dexterity or comfort.
- ChemTek™ butyl 38-514 gloves offer superior protection against aldehydes, ketones and esters as well as concentrated mineral acids.
- ChemTek™ gloves are surprisingly flexible and provide excellent dexterity. Designed for comfort – with a natural, curved ergonomic shape and soft feel – they offer easy donning and good grip.
- The absence of latex proteins means there is no risk of latex allergies.
- AQL 1.5 (EN374).

### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Defence and first responder
- Pharmaceuticals

### Ideal applications

- Chemical industry
- Chemical processing and preparation
- Refining – oil and petrol
- Printing industry
- Automotive
- OEM (Original Equipment Manufacturer)
- Mining
- Aerospace
- Disaster response



2000  
EN388



EN374



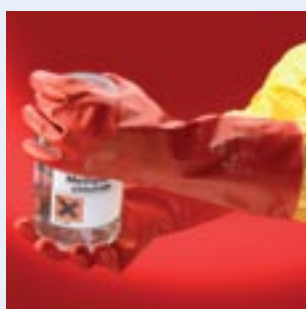
38-514: BIK  
38-612: DFL  
EN374

Risk Category III  
Testing compliant to AS/NZS 2161  
38-514 is anti-static according to EN1149

## PVA™ 15-554

PVA Polyvinyl alcohol  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
PVA™ 15-554	Fully coated	Cotton	PVA	Gauntlet	Red	9, 10	N/A	355mm	1 pair in a bag 12 bags in a carton



### Polyvinyl alcohol coating outperforms most other types of chemical resistant gloves

- One of the only gloves suitable for handling strong organic solvents.
- Virtually inert in aromatic and chlorinated solvents.
- Comfortable anatomical glove with pre-curved fingers and winged thumb. Easier to manipulate and less tiring to wear.

- Soft two-piece knitted liner cushions the hand and absorbs perspiration.
- AQL 1.0 (EN374).

### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Electronics

### Ideal applications

- Printing industry
- Chemical processing and preparation
- Electronic manufacture
- Laboratory work



3121 EN388 3121 EN374 BCD 3121 EN374

Risk Category III  
Testing compliant to AS/NZS 2161

Caution: Do not use in water or water-based solutions.

## PRODUCT DETAILS CONTINUED

### SuperFlex™ Blue 4-644, Brown 4-662



PVC



Splash

Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
SuperFlex™ Blue 4-644	Fully coated	Cotton	PVC	Safety	Blue	9, 10, 11	1.6mm	300mm	12 pairs in a bag 6 bags in a carton
SuperFlex™ Brown 4-662	Fully coated	Cotton	PVC	Safety	Brown	9, 10	1.0mm	300mm	12 pairs in a bag 6 bags in a carton



SuperFlex™ Blue 4-644

#### Premium grade PVC chemical glove

- The SuperFlex™ glove range includes two premium grade PVC gloves, SuperFlex™ Blue and SuperFlex™ Brown, which deliver great flexibility but also offer superior chemical and abrasion resistance together with high levels of comfort.
- The glove range features a cotton interlock liner and its roughened finish provides enhanced grip even on wet surfaces.
- Excellent protection from oils, acids, caustics and alcohols.

#### Primary industries

- Oil, gas and chemical
- Building and construction
- Petrochemical

#### Ideal applications

- Chemical handling
- Building and construction
- Cleaning and janitorial

#### Chemical protection

- Liquid proof to an AQL of 4.0 or EN level 1



4-644: 4121  
4-662: 3121  
EN388

EN374 EN374

Risk Category II  
Testing compliant to AS/NZS 2161

## AlphaTec® 58-270



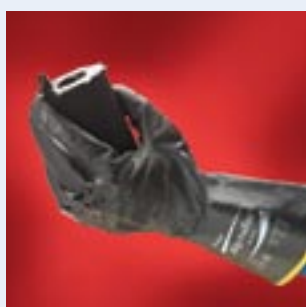
Nitrile



Immersion

Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
AlphaTec® 58-270	Fully coated	Nylon	Nitrile	Safety	Black	7, 8, 9, 10, 11	N/A	300mm	12 pairs in a bag 12 bags in a carton



### Chemical resistant glove with industry-leading grip and superior dexterity

- The AlphaTec® 58-270 glove benefits from industry-leading grip with enhanced dexterity and comfort.
- The thin, double-wall nitrile shell and 15-gauge seamless nylon liner offer users excellent tactility and flexibility. In addition, the glove's lightness results in superior comfort. Easy to don and doff, AlphaTec® 58-270 gloves retain minimal heat, reducing perspiration compared to other chemical gloves.
- Wherever chemicals, oil and grease are present, AlphaTec® gloves provide the best grip as it incorporates Ansell Grip Technology™.

- AlphaTec® 58-270 is a liquid-proof glove. The safety cuff is designed for comfort and protection. The gauntlet cuff minimises the discomfort associated with the cuff liner rubbing on the hand and also facilitates ease of doffing during emergency situations.

### Featured technology



### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Building and construction
- Defence and first responder
- Mining
- Maintenance

### Ideal applications

- Maintenance
- Light assembly in chemical environments
- Chemical handling
- Handling objects coated in grease and oils
- Refining – oil and petrol
- Handling paints, inks, dyes, glues and adhesives



X131  
EN388



EN374



JKL  
EN374

Risk Category III  
Testing compliant to AS/NZS 2161  
Anti-static according to EN1149


# AlphaTec®



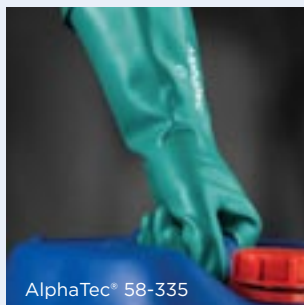


# PRODUCT DETAILS CONTINUED

## AlphaTec® 58-330, 58-335

**NBR** Nitrile  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Thickness	Sizes	Length	Packaging
AlphaTec® 58-330	Fully coated	AquaDri® Nitrile Foam Lining	Nitrile	Safety	Sea Green shell with Royal Blue technology	Nitrile shell gauge (0.3mm), AquaDri® 2 (0.35mm)	7, 8, 9, 10, 11	320mm	12 pairs in a bag. 12 bags in a carton.
AlphaTec® 58-335	Fully coated	AquaDri® Nitrile Foam Lining	Nitrile	Safety	Glass Green shell with Royal Blue technology	Nitrile shell gauge (0.45mm), AquaDri® 2 (0.35mm)	7, 8, 9, 10, 11	380mm	12 pairs in a bag. 6 bags in a carton.



### Less sweat equals greater comfort and performance

- The new AlphaTec® AquaDri® technology delivers the properties of a sponge with un-rivaled moisture absorption capacity: 10x more than traditional cotton-flocked linings. This keeps hands dryer for a longer period of time resulting in significantly improved comfort and performance.
- Delivers optimal results in wet or dry work environments where chemical protection is crucial.
- The AlphaTec® 58-335 Heavy Duty style has a longer cuff to extend protection further to the wrist and lower forearm area.

- The high performance nitrile compound offers superior snag, puncture and abrasion protection over rubber or neoprene gloves, while the foldable cuff prevents dripping on the forearm.

### Featured Technology



### Primary industries

- Automotive & OEM
- Chemical/refineries
- Fabricated metal
- Machinery
- Petroleum/chemical
- Pharmaceutical
- Transport, aerospace
- Mining
- Oil & Gas
- Defence

### Ideal applications


- Changing oil, fixing pumps
- Chemicals mixing/handling/transferring/pouring/blending
- Cleaning
- Opening, draining pumps/valves
- Painting, sealing, packaging
- Sampling/testing



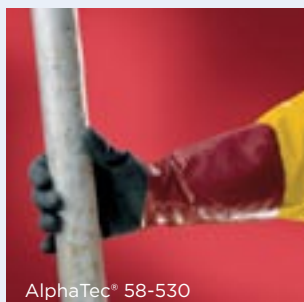
Risk Category III  
Testing compliant to AS/NZS 2161  
Anti-static according to EN1149

# PRODUCT DETAILS CONTINUED

## AlphaTec® 58-530, 58-535

**NBR** Nitrile  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
AlphaTec® 58-530	Fully coated	Acrylic	Nitrile	Safety	Burgundy cuff with black hand	8, 9, 10, 11	N/A	305mm	6 pairs in a bag 12 bags in a carton
AlphaTec® 58-535	Fully coated	Acrylic	Nitrile	Safety	Burgundy cuff with black hand	7, 8, 9, 10, 11	N/A	356mm	6 pairs in a bag 12 bags in a carton



### Unique combination of grip and chemical resistance

- The AlphaTec® glove incorporates revolutionary Ansell Grip Technology™ to enable users to handle wet or oily objects with less grip force and more control. This unique combination of liquid-proof chemical resistance and grip, together with flexibility and dexterity, makes the AlphaTec® glove the logical choice when working with chemicals.
- Reliable chemical protection for added user safety. The patented Ansell Grip Technology™ ensures that the coating polymer does not penetrate the liner during manufacture. The coating is therefore consistent and significantly reduces the likelihood of chemical leakage onto the skin.



- AlphaTec® gloves have a chemical resistance performance equivalent to the SolVex® 37-175 glove.

### Featured technology



### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Building and construction
- Recycling
- Defence and first responder
- Mining
- Agriculture and viticulture

### Ideal applications

- Chemical handling, especially caustics and solvents
- Printing industry
- Mining
- Aerospace
- Emergency services
- Maintenance
- Agrochemicals
- Handling objects coated in grease and oils
- Handling paints, inks, dyes, glues and adhesives
- Refining – oil and petrol



Risk Category III  
Testing compliant to AS/NZS 2161  
Anti-static according to EN1149

# AlphaTec®

AlphaTec® advanced chemical protection gloves provide best-in-class comfort, confidence, and control for workers exposed to hostile chemical environments.

Engineered with the most advanced chemical and liquid resistance technologies and built on a platform of forward-thinking advances in material science.

AlphaTec® gloves provide superior hand protection, comfort, grip and flexibility while mitigating the risk of invisible, lethal chemical exposures.

# PRODUCT DETAILS CONTINUED

## SolVex® 37-145, 37-175, 37-185



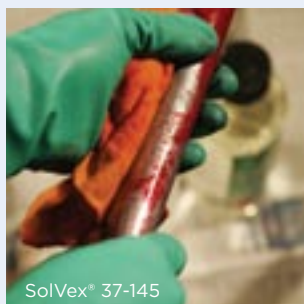
Nitrile



Immersion

Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
SolVex® 37-145	Fully coated	Unlined	Nitrile	Safety	Green	7, 8, 9, 10, 11	0.28mm	330mm	1 pair in a bag 12 bags in a carton
SolVex® 37-175	Fully coated	Flocked	Nitrile	Safety	Green	6, 7, 8, 9, 10, 11	0.38mm	330mm	1 pair in a bag 12 bags in a carton
SolVex® 37-185	Fully coated	Unlined	Nitrile	Gauntlet	Green	7, 8, 9, 10, 11	0.56mm	455mm	1 pair in a bag 12 bags in a carton



SolVex® 37-145



SolVex® 37-175



SolVex® 37-185

### High-comfort, chemical resistant glove for a wide range of applications

- The SolVex® nitrile glove is designed to deliver optimal results in wet or dry work environments where chemical resistance is crucial. Fully reusable, with an unequalled abrasion resistance, provides superb comfort for the wearer.
- The SolVex® 37-145 and 37-185 gloves have no inner cotton flocking, making it ideal for production areas sensitive to fibrillation.
- The sandpatch finish provides good grip of oily parts.
- The sandpatch finish gives the glove a smooth surface that decreases indirect costs thanks to fewer rejects of fragile parts.

### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Building and construction
- Recycling (37-185)
- Defence and first responder
- Mining
- Agriculture and viticulture

### Ideal applications

- Chemical processing and preparation
- Refining – oil and petrol
- Metal fabrication
- Agrochemicals
- Printing



37-175: 4101  
37-185: 4102  
EN388



EN374



37-145: JKL  
37-175: JKL  
37-185: AKL  
EN374

Risk Category III  
Testing compliant to AS/NZS 2161  
37-185 is anti-static according to EN1149

## Virtex® 79-700



Nitrile



Immersion

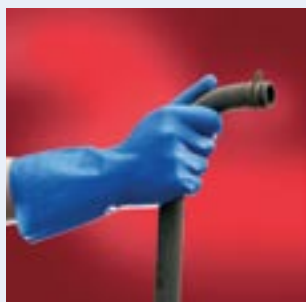
Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
Virtex® 79-700	Fully coated	Flocked	Nitrile	Safety	Blue	7, 8, 9, 10, 11	0.225mm (0.200mm nitrile shell and 0.025mm inner coating)	310mm	1 pair in a bag 50 pairs in a box 4 boxes in a carton



### All day comfort in a lightweight glove

- Designed specifically to offer outstanding comfort, flexibility and good chemical resistance.
- Virtex® gloves incorporate the unique new and patent pending Aquadri® technology – Ansell Moisture Management Technology™. This technology gives this reusable glove excellent moisture absorption capabilities and keeps users hands drier for a longer period of time.
- Gloves featuring Aquadri® technology show a significantly lower tendency to shed than traditional cotton flock gloves.
- Next to the comfort gain, you benefit from an optimised cost of ownership.



### Featured technology



### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Building and construction
- Recycling
- Defence and first responder
- Mining
- Logistics and warehousing

### Ideal applications

- Handling and light assembly applications in dry, fully wet or oily conditions
- Light assembly in chemical environments
- Engine and system testing
- Paint and spray shops
- Oil and hydro-carbon based solutions
- Painting, coating and cleaning
- Food distribution






2000  
EN388 EN374 EN374 EN421

Risk Category III  
Testing compliant to AS/NZS 2161  
Anti-static according to EN1149



## PRODUCT DETAILS CONTINUED

### Touch N Tuff® 92-500

 Nitrile  Splash  Disposable Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Thickness	Sizes	Length	Packaging
Touch N Tuff® 92-500	Disposable	N/A	Nitrile	Beaded	Green	0.11mm	S, M, L, XL	240mm	100 gloves in a box 10 boxes in a carton



#### Proven splash resistance against hazardous chemicals

- Three times the puncture resistance of latex or PVC disposable gloves.
- TNT Thin Nitrile Technology™ produces a remarkable film of 0.11mm thick. Unparalleled comfort and sensitivity, yet this superlight film is surprisingly strong.
- 100% nitrile; no waxes, silicone or plasticisers.
- Rolled cuff provides added protection at wrist and ensures a secure fit.
- Light and comfortable for wearing as a liner. Double donning is the safest practice when handling very dangerous materials.
- AQL 1.5 (EN374).



#### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Electronics
- Building and construction
- Recycling
- Defence and first responder
- Pharmaceuticals
- Food processing and food service
- Mining
- Logistics and warehousing
- Oil, gas and chemical
- Agriculture and viticulture

#### Ideal applications

- Laboratory analysis
- Chemical industry
- Emergency services
- Electronics
- Intricate parts handling



EN374 EN374  
Risk Category III  
Testing compliant to AS/NZS 2161

# TouchNTuff®

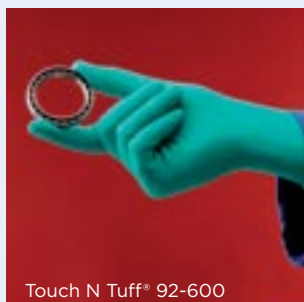


# PRODUCT DETAILS CONTINUED

## Touch N Tuff® 92-600, 92-605

 Nitrile  Splash  Disposable Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Thickness	Sizes	Length	Packaging
Touch N Tuff® 92-600	Disposable	N/A	Nitrile	Beaded	Green	0.11mm	S, M, L, XL	240mm	100 gloves in a box 10 boxes in a carton
Touch N Tuff® 92-605	Disposable	N/A	Nitrile	Beaded	Green	0.11mm	S, M, L, XL	300mm	100 gloves in a box 10 boxes in a carton



Touch N Tuff® 92-600

### Proven splash resistance against hazardous chemicals

- Further testing of the Touch N Tuff® glove by a certified body on an even wider range of chemicals confirms that it resists a greater variety of industrial chemicals for longer periods than any other nitrile disposable gloves.
- Manufactured from nitrile, Touch N Tuff® gloves offer up to four times the puncture resistance of comparable natural-latex gloves, and three times the resistance of similar neoprene gloves.
- Contains no natural rubber proteins. Tests have shown no evidence of risk from irritation or allergic contact dermatitis.
- With a unique TNT Thin Nitrile Technology™ formulation, this glove offers easy donning and strong grip in wet or dry conditions.
- The glove is highly versatile and suitable for many different uses.

### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Building and construction
- Recycling
- Defence and first responder
- Mining
- Food processing and food service
- Agriculture and viticulture
- Electronics
- Pharmaceuticals
- Maintenance

### Ideal applications

- Chemical handling
- Printing industry
- Laboratory analysis
- Electronics
- Pharmaceuticals
- Glass manufacturing
- Paint and spray shops
- Handling of cytostatics
- Intricate parts handling
- Light assembly of oil-coated pieces

92-600



EN374

92-605



EN374



EN374

Risk Category III  
Testing compliant to AS/NZS 2161  
Anti-static according to EN1149

## Neotop™ 29-500



Neoprene



Immersion

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
Neotop™ 29-500	Fully coated	Flocked	Neoprene	Safety	Black	8, 9, 10	0.75mm	330mm	12 pairs in a bag 12 bags in a carton



### Medium-duty chemical protection with outstanding flexibility and ease of handling

- Ideal for use in cold conditions – neoprene maintains its superb elasticity even at low temperatures.
- Neoprene formula. Protects against a wide range of acids, caustics, alcohols and many solvents.
- Superior flexibility. Contains natural rubber. Much less tiring to the hands than other heavy-duty gloves.
- Flocklined in pure cotton. Soft, comfortable and absorbent.
- AQL 0.65 (EN374).

### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Janitorial services
- Maintenance

### Ideal applications

- Agriculture
- Chemical
- Refining – oil and petrol
- Cleaning
- Maintenance




3121 EN388 EN374 AKL EN374

Risk Category III  
Testing compliant to AS/NZS 2161

## PRODUCT DETAILS CONTINUED

### Scorpio® 8-354

NE Neoprene  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
Scorpio® 8-354	Fully coated	Cotton	Neoprene	Safety	Dark green	9, 10	N/A	350mm	12 pairs in a bag 6 bags in a carton



#### Neoprene dipped coating on an interlock knit liner

- 100% liquid proof. Soft stretchy knit liner with no seams in working area. Extremely comfortable to wear. Cushions the hand, absorbs perspiration and prevents chafing.
- Excellent wet grip. Safer handling means increased productivity.
- Exceptional flexibility. Easier to manipulate, less tiring to the hand and easier to get on and off.
- Neoprene coating. Wide ranging chemical protection.
- AQL 1.0 (EN374).

#### Primary industries

- Automotive and transportation
- Metal fabrication
- Machinery and equipment
- Oil, gas and chemical
- Janitorial services
- Maintenance
- Utilities

#### Ideal applications

- Cleaning
- Laboratory analysis
- Refining – oil and petrol
- Petrochemicals
- Specialty chemicals



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EN374

Risk Category III  
Testing compliant to AS/NZS 2161  
Anti-static according to EN1149



## Chemi-Pro™ 224X

**NR** Natural rubber  Immersion Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
Chemi-Pro™ 224X	Fully coated	Flocked	Natural rubber latex/neoprene	Safety	Blue and yellow	8, 9, 10	0.68mm	320mm	12 pairs in a bag 4 bags in a carton



### Reliable protection against a very wide range of chemicals

- Natural rubber latex/neoprene blend for reliable protection against a very wide range of chemicals.
- Double dipped for enhanced protection.
- Heavyweight resistance to salts and detergents.
- Unsupported heavyweight glove with embossed lozenge finish. Strong and durable with excellent wet and dry grip.
- Quality flock lining in pure cotton: Helps reduce risk of skin irritation.
- AQL 0.65 (EN374).

### Primary industries

- Oil, gas and chemical
- Electronics

### Ideal applications

- Aircraft assembly
- Battery manufacture
- Chemical industry
- Electronic manufacture



X120 EN388 EN374 AKL EN374 EN421

Risk Category III  
Testing compliant to AS/NZS 2161

Caution: This product contains natural rubber latex which may cause allergic reactions.

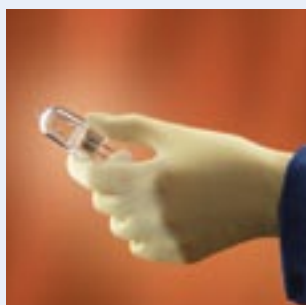
Caution: Products containing natural rubber latex may cause allergic reactions and should not be used when lubricants and/or oils are present.

# PRODUCT DETAILS CONTINUED

## Conform® 844X

**NR** Natural rubber  Splash Chemical and liquid protection

Reference	Type	Liner material	Coating material	Cuff style	Colour	Sizes	Thickness	Length	Packaging
Conform® 844X	Fully coated	N/A	Natural rubber latex	Beaded	Natural	S, M, L, XL	0.13mm	240mm	100 gloves in a box 10 boxes in a carton



### Combined safety and comfort for delicate handling

- Ambidextrous: same glove fits both hands. All size hands can be comfortably clad by just four sizes.
- Convenient and economical. Stocks can be kept to a minimum.
- Flexible and comfortable to wear. Cooler than vinyl, with superior finger flexibility and grip.
- Lowest AQL level – 1.5 (EN374).

### FDA status

All ingredients conform to the applicable FDA indirect food additive regulations as prescribed by the FDA Code of Federal Regulations, Title 21, Part 177, Section 2600 (21 CFR 177.2600).

### Primary industries

- Automotive and transportation
- Metal fabrication
- Glass

### Ideal applications

- Laboratory analysis
- Electronic manufacture
- Pharmaceuticals



EN374 EN374

Risk Category III  
Testing compliant to AS/NZS 2161

Caution: This product contains natural rubber latex which may cause allergic reactions.

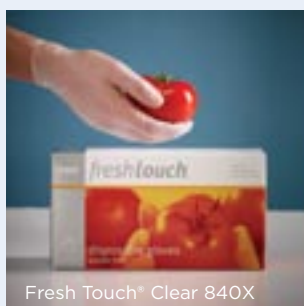
Caution: Products containing natural rubber latex may cause allergic reactions and should not be used when lubricants and/or oils are present.

## Fresh Touch® Clear 840X, 850X, Blue 851X

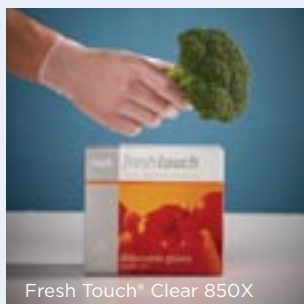


Disposable Product protection

Reference	Type	Liner material	Coating material	Cuff style	Grip design	Colour	Thickness	Powder free	Sizes	Length	Packaging
Fresh Touch® Clear 840X	Disposable	N/A	Vinyl	Beaded	Smooth	Clear	0.12mm	Yes	S, M, L	245mm	50 pieces in a box 20 boxes in a carton
Fresh Touch® Clear 850X	Disposable	N/A	Vinyl	Beaded	Smooth	Clear	0.12mm	Yes	S, M, L	245mm	100 pieces in a box 10 boxes in a carton
Fresh Touch® Blue 851X	Disposable	N/A	Vinyl	Beaded	Smooth	Blue	0.12mm	Yes	S, M, L	245mm	100 pieces in a box 10 boxes in a carton



Fresh Touch® Clear 840X



Fresh Touch® Clear 850X



Fresh Touch® Blue 851X

### Disposable vinyl gloves, ideal for acidic, aqueous and alcoholic food contact

- Fresh Touch® Clear and Fresh Touch® Blue gloves are powder free disposable vinyl gloves designed for optimal wearer comfort and durability.
- The premium quality, powder free vinyl construction makes Fresh Touch® a clean wearing glove which delivers superior dexterity and touch.

### FDA status

All ingredients conform to the applicable FDA indirect food additive regulations as prescribed by the FDA Code of Federal Regulations, Title 21, Part 177, Section 2600, 'Rubber Articles'.

### Primary industries

- Food handling and catering

### Ideal applications

- Food preparation
- Catering



EN374

Testing compliant to AS/NZS 2161

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.



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