



Ansell



A full-page background image of a male oil and gas worker. He is wearing a white hard hat with a logo, safety glasses, a blue work shirt with reflective strips, and yellow and orange Ansell ActivArmor gloves. He is holding a thick, braided metal cable. The background shows an industrial setting with blue structures and a clear blue sky.

# INDUSTRY GUIDE



OIL & GAS

## ANSELL PROTECTION SOLUTIONS FOR INDUSTRY PROCESSES

Ansell is dedicated to worker safety: we provide a comprehensive range of hand, arm and body protection solutions to cover needs across many industries. Before selecting a product, ensure a risk assessment of the hazards has been conducted to determine that the product will provide an appropriate level of protection. Ansell Guardian® Chemical can be consulted to provide an assessment of the level of chemical protection offered by our products and may assist in the risk assessment. The determination of suitability of Ansell hand, arm and body protection solutions is the final responsibility of the user.

### EN 388 – Mechanical protection

This standard applies to all kinds of protective gloves in respect of physical and mechanical aggressions caused by abrasion, blade cut, puncture and tearing.

Performance level rating		1	2	3	4	5	
 EN 388:2003 abcd	<b>a</b> Abrasion Resistance (Cycles)	100	500	2000	8000	–	
	<b>b</b> Blade Cut Resistance (Coupe Test/Index)	1.2	2.5	5.0	10.0	20.0	
	<b>c</b> Tear Resistance (Newtons)	10	25	50	75	–	
	<b>d</b> Puncture Resistance (Newtons)	20	60	100	150	–	
Expanded performance level rating according to EN 388:2016 (a–f)		A	B	C	D	E	F
 EN 388:2016 abcdef	<b>e</b> EN ISO Cut Resistance (Newtons)	2	5	10	15	22	30
	<b>f</b> EN Impact Protection	PASS or FAIL					

Note: Level X can also be applied for a through e above, which means “not tested” or “not applicable”

### EN 388:2016: main changes from the previous EN 388:2003 standard

#### 1. ABRASION

New abrasion paper used in testing.

#### 2. CUT







New procedure for Coupe Test which also determines if dulling occurs. If dulling occurs, the new EN ISO 13977 test method becomes the reference whilst the Coupe Test would only be indicative.

#### 3. IMPACT

Test method for areas claiming impact protection. “P” for pass whilst no code will apply in case of fail.

### EN ISO 374 – Chemical protection and/or protection against micro-organisms

This standard specifies the capability of gloves to protect the user against chemicals and/or micro-organisms.

Micro-organisms								
<div>EN 374:2003</div> <div></div> <div>EN level ≥ 2</div> <div>EN ISO 374-5:2016</div> <div></div> <div>VIRUS</div>	<b>Performance levels</b>	<b>1</b>	<b>2</b>	<b>3</b>				
	<p><b>Old:</b> AQL (Acceptable Quality Level) for liquid penetration. A high index number is poor and a low index number is good. Gloves need to pass water and air leak test, and this test method remains unchanged as per the new EN ISO 374 standard.</p> <p><b>New:</b> in addition to testing for protection from bacteria and fungi, each glove can be tested for its protection against viruses with a new viral penetration test.</p>	4.0	1.5	0.65				
Chemical protection								
<div>EN 374:2003</div> <div></div> <div>XYZ</div> <div>EN ISO 374-1:2016</div> <div>Type C</div> <div></div> <div>EN ISO 374-1:2016</div> <div>Type B</div> <div></div> <div>XYZ</div> <div>EN ISO 374-1:2016</div> <div>Type A</div> <div></div> <div>UVW XYZ</div>	<p><b>Old:</b> breakthrough time &gt; 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 &gt; 30 minutes breakthrough time).</p> <p><b>New:</b></p> <p><b>Type C</b> At least Level 1 performance (more than 10 minutes) against at least one chemical on the list – cuffs are also tested.*</p> <p><b>Type B</b> At least Level 2 performance (more than 30 minutes) against at least three chemicals on the list – cuffs are also tested.*</p> <p><b>Type A</b> At least Level 2 performance (more than 30 minutes) against at least six chemicals on the list – cuffs are also tested.*</p>	<p>A. Methanol B. Acetone C. Acetonitrile D. Dichloromethane E. Carbon disulphide F. Toluene</p> <p><b>Additional chemicals</b></p> <p>M. Nitric acid 65% N. Acetic acid 99% O. Ammonium hydroxide 25%</p>	<p>G. Diethylamine H. Tetrahydrofuran I. Ethyl acetate J. n-Heptane K. Sodium hydroxide 40% L. Sulphuric acid 96%</p> <p>P. Hydrogen peroxide 30% S. Hydrofluoric acid 40 % T. Formaldehyde 37%</p>					
	<b>Performance level</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
	Minutes	< 10	10	30	60	120	240	> 480

 The beaker icon (low chemical resistance/waterproof) has been eliminated.

\* Only if the glove is ≥ 40 cm





## OIL & GAS INDUSTRY PROCESSES



### 1. DRILLING

#### Applications:

- Engagement and release of drillstring slips
- Chaining up pipes
- Installation and dismantling of rigs

#### User needs:

- Impact protection
- Oil protection
- Heavy tool handling



EDGE® 48-205



ActivArm® 46-551



ActivArm® 97-125



MICROCHEM® CFR



### 2. WIRELINE SERVICES

#### Applications:

- Makeup and breakout tools
- Running tools into the wellbore
- Handling explosives

#### User needs:

- Cut resistance
- Impact protection
- Flexibility and grip



ActivArm® 97-125



EDGE® 48-205



HyFlex® 11-939



### 3. CASING

#### Applications:

- Assembly and disassembly of large pipes
- Engagement and release of drillstring slips
- Unloading and stacking pipe

#### User needs:

- Impact protection
- Abrasion resistance
- Comfort



ActivArm® 97-125



EDGE® 48-205



ActivArm® 97-120



### 4. COILED TUBING

#### Applications:

- Preparation of site/set-up and disassembly of tool string
- Set-up of pressure manifold and tubing injector head
- General pumping work

#### User needs:

- Abrasion protection
- Oil protection
- Comfort



ActivArm® 97-125



EDGE® 48-205



HyFlex® 11-939



### 5. PRESSURE PUMPING

#### Applications:

- Preparation of site/unloading of lines and valves
- Handling iron/rigging work
- Handling of tools

#### User needs:

- Chemical resistance
- Abrasion protection
- Flexibility and grip



EDGE® 48-205



ActivArm® 97-120



ActivArm® 97-125



AlphaTec® 3000\*



### 6. PRODUCTION SERVICE

#### Applications:

- Environmental clean-up and remediation
- Handling iron
- Valve/line maintenance and repair

#### User needs:

- Dry, wet and oily grip
- Liquid barrier
- High visibility



ActivArm® 97-120



HyFlex® 11-939



HyFlex® 11-925



AlphaTec® 4000\*



### 7. SHOP AND LAB WORK

#### Applications:

- Drilling assembly and completion
- Handling jagged metal
- Mixing or loading chemicals

#### User needs:

- Chemical resistance
- Dexterity
- Flexibility and grip



ActivArm® 97-120



HyFlex® 11-939



AlphaTec® 58-535W



### 8. INFRASTRUCTURE CONSTRUCTION

#### Applications:

- Heavy machinery operation
- Equipment maintenance
- Pipe handling and installation

#### User needs:

- Dry and wet grip
- Comfort and dexterity
- Cut resistance



ActivArm® 43-216



HyFlex® 11-425



HyFlex® 11-939

\*There will be a transitional period where there will be a mix of old and newly branded products in the market. Functionality and performance of the products will remain unchanged, the current products and the new ones have the same quality and same protection.

## GET MORE PRODUCT INFORMATION ONLINE

Our websites provide you with easy access to our product search tools along with data/product sheets and certificates.



Hand and arm protection



<http://industrialcatalogue.ansell.eu>

Select the right glove or sleeve that best fits your industry and application.



Body protection



[www.microgard.com](http://www.microgard.com)

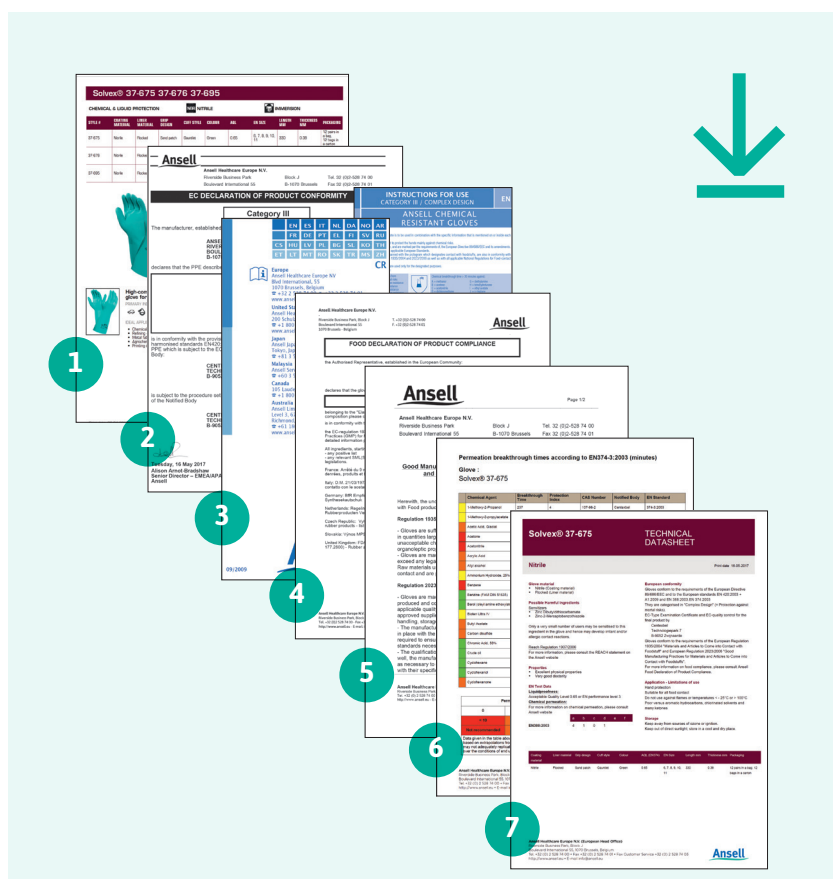
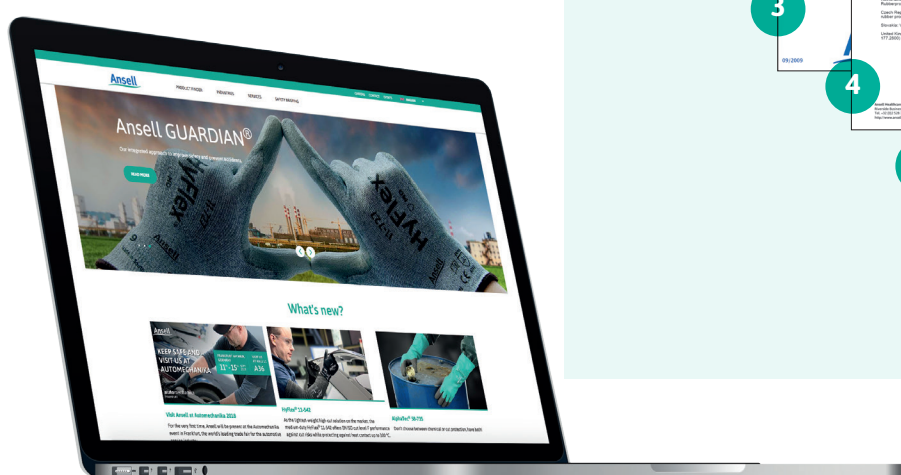
Find more information on our MICROGARD®, MICROCHEM® and AlphaTec® chemical protective clothing products.

<http://protective.ansell.com>

Find more information on our VIKING™, TRELLCHEM®, TRETIGHT™, TRELLTENT™ and AlphaTec® products.

Your search options also include various downloadable data sheets:

- 1 Product sheets
- 2 EU declaration of conformity
- 3 Instructions for use
- 4 Food declarations of product conformity
- 5 GMP food declaration
- 6 Chemical recommendation guides
- 7 Technical data sheets



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