

Ansell

A full-page photograph of a male mining worker standing in a dark tunnel. He is wearing a white hard hat with a headlamp, safety glasses, an orange high-visibility work shirt with reflective stripes, dark gloves, and a tool belt. The background shows the rough, rocky walls of the tunnel and some yellow safety barriers.

INDUSTRY GUIDE

MINING

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	a Abrasion Resistance (Cycles)	100	500	2000	8000	–	
	b Blade Cut Resistance (Coupe Test/Index)	1.2	2.5	5.0	10.0	20.0	
	c Tear Resistance (Newtons)	10	25	50	75	–	
	d 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	e EN ISO Cut Resistance (Newtons)	2	5	10	15	22	30
	f 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							
Performance levels		1	2	3			
 EN level ≥ 2	Old: 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.	4.0	1.5	0.65			
	New: 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.						
Chemical protection							
 XYZ  Type C  Type B  Type A UVWXYZ	Old: 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%				
	New:	Additional chemicals					
	Type C At least Level 1 performance (more than 10 minutes) against at least one chemical on the list – cuffs are also tested.*	M. Nitric acid 65% N. Acetic acid 99% O. Ammonium hydroxide 25%	P. Hydrogen peroxide 30% S. Hydrofluoric acid 40% T. Formaldehyde 37%				
	Type B At least Level 2 performance (more than 30 minutes) against at least three chemicals on the list – cuffs are also tested.*						
Type A At least Level 2 performance (more than 30 minutes) against at least six chemicals on the list – cuffs are also tested.*							
Performance level	0	1	2	3	4	5	6
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



MINING INDUSTRY PROCESSES



1. INFRASTRUCTURE CONSTRUCTION

Applications:

- Signalling/positioning
- Operating of heavy machinery
- Pipe handling

User needs:

- Abrasion resistance
- Dexterity
- Comfort



HyFlex® 11-751



HyFlex® 11-840



HyFlex® 11-801



RINGERS R-161



2. EXTRACTION & EXPLORATION

Applications:

- Drilling and blasting
- Hydraulic set and testing
- Loading and hauling

User needs:

- Dexterity and grip
- Comfort
- High visibility



ActivArm® 97-013



ActivArm® 97-120



RINGERS R-176



RINGERS R-179



3. CRUSHING

Applications:

- Crushing and unloading ore
- Primary grinding
- Inspection of primary product

User needs:

- Enhanced wet/oil grip
- Chemical resistance to splashes
- Comfort for hot environments



HyFlex® 11-926



HyFlex® 11-937



TouchNTuff® 93-250



AlphaTec® 1500
(ex. MICROGARD®)



4. WASHING & PREPARATION

Applications:

- Concentration, mixing and palletisation
- Use of binding agents
- Cleaning of equipment

User needs:

- Durability
- Cut resistance
- Improved chemical protection



AlphaTec® 58-735



AlphaTec® 1500
(ex. MICROGARD®)



5. TRANSPORT & LOGISTICS

Applications:

- Hydraulic repair
- Product inspection
- Shipping and loading of product

User needs:

- Wet and oil grip
- Chemical splash resistance
- Cut protection



HyFlex® 11-927



ActivArm® 97-013



AlphaTec® 58-128



RINGERS R-138



6. SERVICE/MAINTENANCE

Applications:

- Vehicle maintenance
- Conveyor and long wall maintenance
- Re-fuel oil, fluid and diesel

User needs:

- Cut resistance
- Durability
- Dexterity and tactility



HyFlex® 11-849



HyFlex® 11-840



HyFlex® 11-939



TouchNTuff® 93-250



ActivArm® 80-813
(ex. PowerFlex®)



AlphaTec® 1800
STANDARD
(ex. MICROGARD®)



RINGERS R-665



7. RESCUE & EMERGENCY RESPONSE

Applications:

- Accidental chemical releases
- Rescue/extraction from confined spaces
- Basic first aid

User needs:

- Chemical protection



MICROFLEX® 93-852



MICROCHEM® 6000

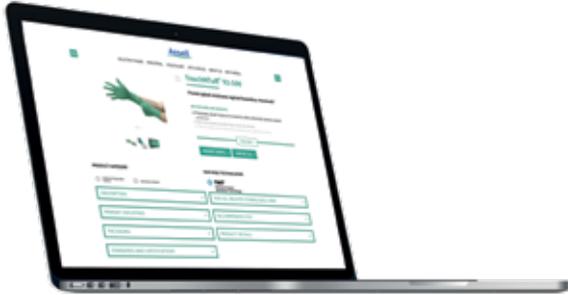
*There will be a transitional period where there will be a mix of old and newly branded products in the market. Functionality and performance of the products will remain unchanged, the current products and the new ones have the same quality and same protection.

GET MORE PRODUCT INFORMATION ONLINE

Our new website provides content rich of information on safety, solutions, documents and downloads, regulatory and company information with simple navigation of our full portfolio of hand, arm and body protection solutions.

➔ www.ansell.com/industrial

PRODUCT INFORMATION



Your search options also include various downloadable data sheets:

- A** Product sheets
- B** EU declarations conformity
- C** Instructions for use
- D** Food declarations of product conformity

INDUSTRIAL SECTION

Explore the new search and navigation features for a seamless web experience:

1 Ansell Solutions by type of protection

2 News & Campaigns

3 Newsletters: Safety Briefing

4 Ansell Solutions by Industries

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