

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.

puncture un	d tearing.							
Performance level rating		1	2	3		4	5	
EN 388:2003	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	-	
xpanded per	formance level rating according to EN 388:2016	(a–f) A	В	С	D	E	F	
EN 388:2016	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.

icro-organism	15								
	Performance levels				1 2 4.0 1.5		2	3	
EN 1374:2003 EN level ≥ 2 N ISO 374-5:2016 VIRUS	Old: AQL (Acceptable (A high index number is good. Gloves need to p test method remains u standard. New: in addition to tes fungi, each glove can b viruses with a new vira	1.5	0.65						
nemical prote	ection								
EN 374:2003	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).				B. AcetoneH. TC. AcetonitrileI. EiD. DichloromethaneJ. nE. Carbon disulphideK. S		H. Tetrahyd I. Ethyl acet J. n-Heptane K. Sodium h	Diethylamine Tetrahydrofurane Ethyl acetate n-Heptane Sodium hydroxide 40% Sulphuric acid 96%	
Type C V ISO 374-1:2016 Type B V ISO 374-1:2016 Type A Type A	 Type C At least Level 1 performance (more than 10 minutes) against at least one chemical on the list – cuffs are also tested.* Type B At least Level 2 performance (more than 30 minutes) against at least three chemicals on the list – cuffs are also tested 				Additional chemicalsM. Nitric acid 65%P. Hydrogen peroxidN. Acetic acid 99%S. Hydrofluoric acid 4O. AmmoniumT. Formaldehyde 37%hydroxide 25%			oric acid 40 %	
UVWXYZ					•				
	Performance level	0	1	2	3	4	5	6	

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

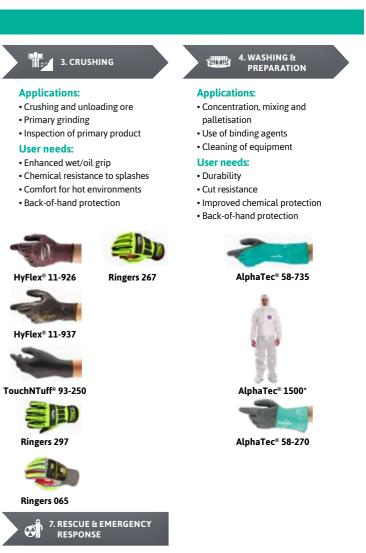
Only if the glove is >= 40 cm

🕺 MINING INDUSTRY I	PROCESSES				
1. INFRASTRUCTURE CONSTRUCTION	2. EXTRACTION & EXPLORATION				
Applications:	Applications:				
 Signalling/positioning 	 Drilling and blasting 				
 Operating of heavy machinery 	 Hydraulic set and testing 				
• Pipe handling	 Loading and hauling 				
User needs:	User needs:				
Abrasion resistance	Dexterity and grip				
Dexterity	Comfort				
Comfort Back-of-hand protection	 High visibility Crush protection 				
Back of Hand protection	eran protection				
Hytiek	4				
HyFlex [®] 11-751	ActivArmr [®] 97-013				
and the second second					
HyFlex [®] 11-840	Ringers 065				
HyFlex [®] 11-801	Ringers 068				
HyFlex [®] 11-651	Ringers 161				
Ringers 065					
5. TRANSPORT & LOGISTICS	6. SERVICE/MAINTENANCE				
Applications:	Applications:				
Hydraulic repair	Vehicle maintenance				
 Product inspection 	 Conveyer and long wall 				
 Shipping and loading of product 	maintenance				
User needs:	Re-fuel oil, fluid and diesel				
• Wet and oil grip	User needs: • Cut resistance				
Chemical splash resistance Cut protection	Durability				
Crush protection	Desterity and tactility				
	Crush protection				
2 million					
a second and	and and				
HyFlex [®] 11-927	HyFlex® 11-840				
ActivArmr [®] 97-013	HyFlex® 11-939 AlphaTec® 1800 STANDARD*				
-					
AlphaTec [®] 58-128	TouchNTuff [®] 93-250				
Ringers 065	Ringers 161				
500					

*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.

Ringers 163

Ringers 068



Applications:

- Accidental chemical releases • Rescue/extraction from confined spaces • Basic first aid
- User needs:
- Chemical protection
- Crush protection







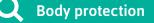
GET MORE PRODUCT INFORMATION ONLINE

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

Q Hand and arm protection

http://industrialcatalogue.ansell.eu

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



🗲 www.microgard.com

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

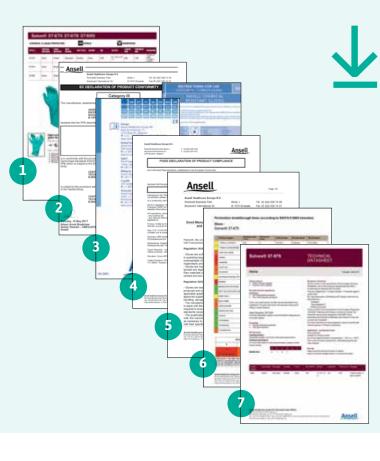
http://protective.ansell.com

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





FOR FURTHER INFORMATION OR TO REQUEST A SAMPLE, CONTACT YOUR SALES REPRESENTATIVE.

