

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.

	chanical protection d applies to all kinds of protective gloves d tearing.	in respect	of physi	cal and mecha	nical agg	ression	s caused by	abrasion, bla	de cut,
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	_
Expanded performance level rating according to EN 388:2016 (a-f)			A	В	С		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 Old: AQL (Acceptable Quality Level) for liquid penetration. 쥏 1.5 4.0 0.65 A high index number is poor and a low index number is good. Gloves need to pass water and air leak test, and this EN level ≥ 2 test method remains unchanged as per the new EN ISO 374 standard. New: in addition to testing for protection from bacteria and 쥏 fungi, each glove can be tested for its protection against viruses with a new viral penetration test. **Chemical protection** A. Methanol G. Diethylamine Old: breakthrough time > 30 minutes for at least three B. Acetone H. Tetrahydrofurane chemicals from this list (XYZ represent the code letters C. Acetonitrile I. Ethyl acetate for three of these chemicals for which the glove obtained D. Dichloromethane J. n-Heptane > 30 minutes breakthrough time). E. Carbon disulphide K. Sodium hydroxide 40% L. Sulphuric acid 96% F. Toluene New: Type C At least Level 1 performance (more than 10 minutes) Additional chemicals against at least one chemical on the list – cuffs are also tested.* P. Hydrogen peroxide 30% M. Nitric acid 65% N. Acetic acid 99% S. Hydrofluoric acid 40 % Type B At least Level 2 performance (more than 30 minutes) T. Formaldehyde 37% O. Ammonium against at least three chemicals on the list - cuffs are also tested.* hvdroxide 25% 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 2 3 4 5 1 6 60 Minutes < 10 10 30 120 240 > 480

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

* Only if the glove is >= 40 cm



ENGINEERING CONSTRUCTION INDUSTRY PROCESSES



1. EXCAVATION & **PILING**

Applications:

- Major plant equipment operation
- Rigging and dogging
- Pipe installation
- Contact contaminated soil, water and waste

User needs:

- Grip
- Abrasion resistance
- Impact protection
- Chemical resistance



HyFlex® 11-849





Ringers 065



AlphaTec® 58-270



2. STRUCTURAL **ERECTION**

Applications:

- Installing formwork
- Rigging and dogging
- Use hand tools
- Move materials
- Pour concrete

User needs:

- Grip
- Cut protection
- Impact protection
- Chemical resistance



HyFlex® 11-738





Ringers 161



AlphaTec® 58-735

7. FINISHING



3. STEELFIXING & STRESSING

Applications:

- Place reinforcing steel
- Fit tensioning cables
- Fix and tie steel
- Welding

User needs:

- Grip
- Cut resistance
- Heat protection



HyFlex® 11-542



HyFlex® 11-751



ActivAmr® 43-217



Applications: · Lab testing and analysis

4. ROAD SURFACING

- Substrate preparation
- Asphalt laying
- Levelling and rolling
- Linemarking

User needs:

- · Chemical and heat protection
- Cut resistance
- Abrasion resistance
- Body protection



AlphaTec® 58-535



HyFlex® 11-937



MICROGARD® 2300

6. SERVICES INSTALLATION

Applications:

- Drilling and fixing
- Electrical and comms fitting
- Sprinkler fitting
- Plumbing & hydraulics

User needs:

- Grip
- Cut protection
- Dexterity
- Abrasion resistance • Electrical protection



HyFlex® 11-840



Ringers 068



ActivArmr® 80-813



- **Applications:** • Painting and plastering
- Brickwork and tiling
- Fitting points and lighting
- Signage installation

User needs:

- Grip
- Abrasion resistance
- Chemical protection
- Cut protection



Microflex® 93-856



HyFlex® 11-531



MICROGARD® 1500



MAINTENANCE

8. OPERATION &

- **Applications:** • Commercial maintenance
- and upkeep
- · Electrical testing Operating equipment and touchscreens
- Visual checks

User needs:

- Dexterity
- Electrical protection
- Abrasion resistance



HyFlex® 11-840



ActivAmr® 80-813



MICROGARD® 1500

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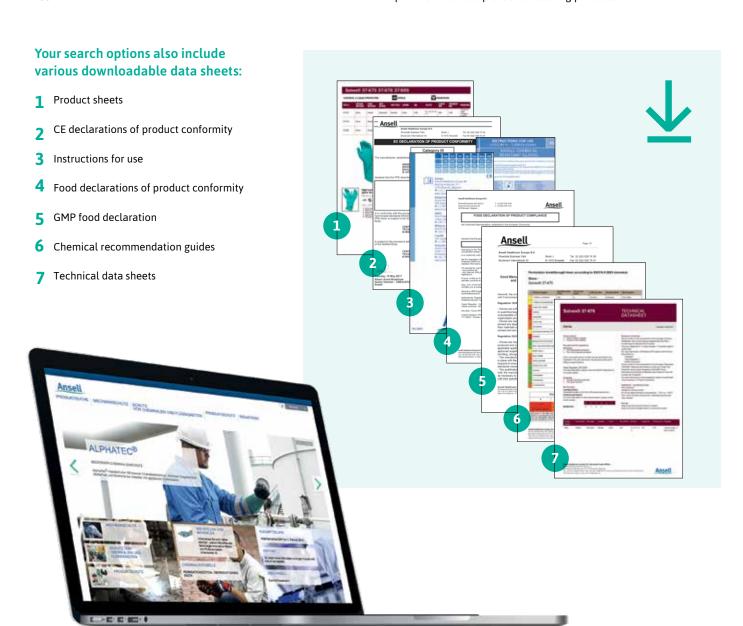


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Select the right glove or sleeve that best fits your industry and application.

www.microgard.com

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