

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 resp	ect of physi	cal and mecha	nical aş	ggressic	ns cau	sed 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)			Α	В	(C	ı	D	E	F
EN 388:2016	e EN ISO Cut Resistance (Newtons)	2		5	1	10		.5	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. 分 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 FN level > 2 test method remains unchanged as per the new EN ISO 374 standard. New: in addition to testing for protection from bacteria and 忿 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% F. Toluene L. Sulphuric acid 96% **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.* M Nitric acid 65% P. Hydrogen peroxide 30% N Acetic acid 99% S. Hydrofluoric acid 40 % Type B At least Level 2 performance (more than 30 minutes) O. Ammonium T. Formaldehyde 37% 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 3 5 2 4 6 1 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

(e)

METAL FABRICATION INDUSTRY PROCESSES



1. CASTING & MELTING

Applications:

- Foundry operations
- Handling materials with sharp or rough edges
- Handling parts in high heat areas

User needs:

- Abrasion and cut resistance
- Grip in dry environments
- Flame and contact heat resistance

Applications:

- Forging operations
- Forging shapes using presses or hammers

2. FORGING

• Extruding, bending and punching shapes

User needs:

- · Abrasion and cut resistance
- Grip in dry environments
- Flame and contact heat resistance

Applications:

- Press shop operations
- Processing sheets, coils, tubes

3. STAMPING &

• Cutting glass sheets, panels

User needs:

- Abrasion, cut, puncture, impact resistance
- Grip in both dry and slightly oily environments

HyFlex® 11-501

• Contact heat resistance



4. MACHINING

Applications:

- Metalwork, glass processing
- Fabricating metal parts, glass sheets
- Assembly and inspection of components

User needs:

- Abrasion, cut, puncture and chemical resistance
- Grip in both dry and oily environments
- Dexterity, tactility



HyFlex® 11-926



HyFlex® 11-751



ActivArmr® 42-474



ActivArmr® 70-765'



ActivArmr® 80-600°



ActivArmr® 42-474*



ActivArmr® 80-600*



ActivArmr® 43-216



HvFlex® 11-541

HyFlex® 11-735

△5. LOGISTICS

Applications:

- Delivery of parts to production line
- Delivery of finished equipment
- Driving fork lifts and trailers

User needs:

- Abrasion, cut resistance
- Grip in both dry and oily wenvironments
- Thermal protection against cold weather

» **4**

6. FINISHING SHOP

Applications:

- Plating, coating, sealing, painting
- Applying finish to materials, products
- Handling application and cleaning tools

User needs:

- Paint compatible, anti-static clothing
- Silicone- and lint-free hand protection
- Sweat resistant garments

7. ASSEMBLY

Applications:• Fastening components, parts

- Positioning equipment using hands, tools
- Adjusting panels, parts, components

User needs:

- Abrasion, cut resistance
- Grip in a dry environment
- Dexterity, tactility



8. MAINTENANCE

Applications:

- Production line support and maintenance
- Equipment repair, maintenance
- Assembly and disassembly of equipment

User needs:

- Abrasion, cut, puncture, chemical resistance
- Dexterity, tactility
- Flame and contact heat resistance



HyFlex® 11-537



ActivArmr® 97-012



HyFlex® 11-849



AlphaTec® 58-735



AlphaTec® 58-330



MICROFLEX® 93-260



AlphaTec® 1800 COMFORT*



HyFlex® 11-531



HyFlex® 11-816



HyFlex® 11-818



HyFlex® 11-840



HyFlex® 11-926





AlphaTec® 1800 STANDARD*

^{*}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.



★ http://industrialcatalogue.ansell.eu

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



✓ www.microgard.com

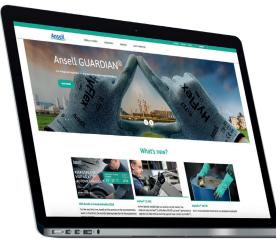
Find more information on our MICROGARD®, MICROCHEM® and AlphaTec® chemical protective clothing products.

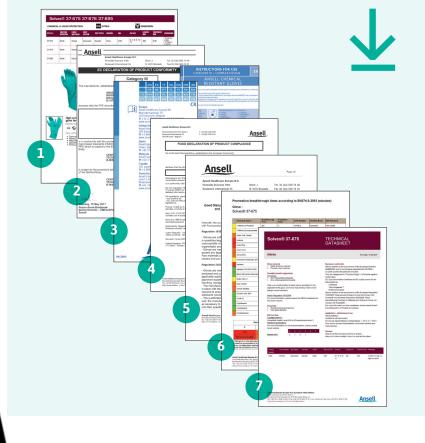
★ http://protective.ansell.com

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

Your search options also include various downloadable data sheets:

- 1 Product sheets
- > 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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