



Ansell

INDUSTRY GUIDE



AEROSPACE

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								
<div>EN 374:2003</div> <div></div> <div>EN level ≥ 2</div> <div>EN ISO 374-5:2016</div> <div></div> <div>VIRUS</div>	Performance levels	1	2	3				
	<p>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.</p> <p>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.</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>UVWXYZ</div>	<p>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).</p> <p>New:</p> <p>Type C At least Level 1 performance (more than 10 minutes) against at least one chemical on the list – cuffs are also tested.*</p> <p>Type B At least Level 2 performance (more than 30 minutes) against at least three chemicals on the list – cuffs are also tested.*</p> <p>Type A 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>Additional chemicals</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>					
	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



AEROSPACE INDUSTRY PROCESSES



1. PRESS SHOP

Applications:

- Feeding press machines
- Arranging parts after press
- Handling scrap parts

User needs:

- Dry grip
- Cut resistance
- Abrasion resistance



RINGERS R-065



HyFlex® 11-542



HyFlex® 11-738



HyFlex® 11-735



2. BODY SHOP

Applications:

- Assembling structural parts using chemicals and glues/mounting smaller components
- Inspection

User needs:

- Dry grip
- Cut resistance
- Chemical resistance



RINGERS R-065



HyFlex® 11-531



HyFlex® 11-724



AlphaTec® 58-270



3. MACHINING

Applications:

- Assembling, mounting, screwing and unscrewing components, often using hand tools
- Loading parts into the CNC machine

User needs:

- Light oil grip
- Abrasion resistance
- Vibration protection



ActivArm® 07-112
(ex. VibraGuard®)



HyFlex® 11-537



HyFlex® 11-937



4. MOLDING

Applications:

- Clean forms
- Preform carbon fibre
- Inspection

User needs:

- Chemical resistance
- Dry and wet grip
- Cut resistance



TouchNTuff® 93-250



AlphaTec® 1800 COMFORT
(ex. MICROGARD®)



5. PAINT SHOP

Applications:

- Body surface checking
- Applying sealant and cleaning products
- Paint spraying

User needs:

- Chemical protection and anti-static
- Silicone- and lint-free
- Dexterity



MICROFLEX® 93-260



AlphaTec® 2000 STANDARD
(ex. MICROGARD®)



6. FINAL ASSEMBLY

Applications:

- Picking components
- Adjusting parts using tools
- Inspection

User needs:

- Cut resistance
- Abrasion resistance
- Dexterity



HyFlex® 11-518



HyFlex® 11-818



HyFlex® 11-931



7. LOGISTICS

Applications:

- Loading and unloading boxes
- Cutting cardboard etc.
- Handling equipment and tools

User needs:

- High abrasion resistance
- High cut protection
- Oil and dry grip



RINGERS R-085



HyFlex® 11-931



HyFlex® 11-735



HyFlex® 11-840



8. MAINTENANCE

Applications:

- Mounting, dismantling
- Repairing equipment
- Cleaning machines

User needs:

- Multi-tasking
- Cut resistance
- Dry and oil grip



HyFlex® 11-537



HyFlex® 11-925



AlphaTec® 58-330

* 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.

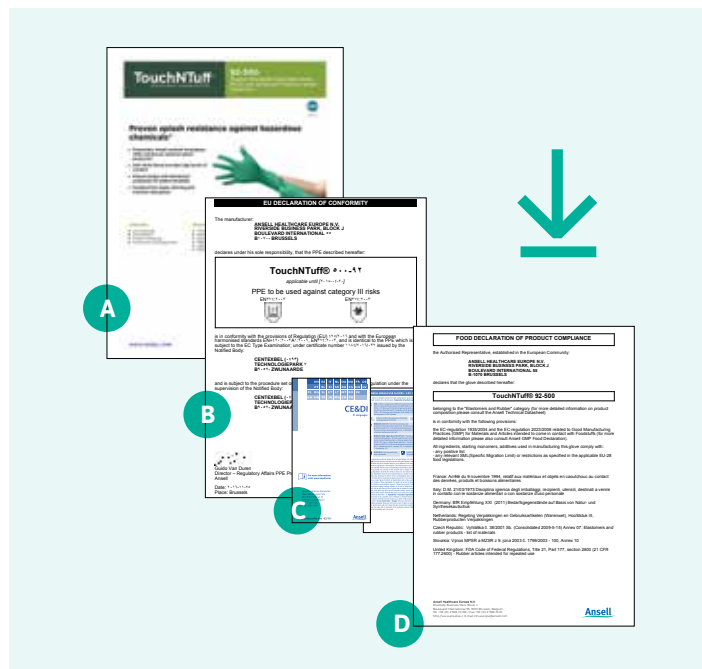
➔ www.ansell.com/industrial

PRODUCT INFORMATION



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



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