

Ansell

INDUSTRY GUIDE

TRANSPORT



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. AnsellGUARDIAN® 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 374:2003 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.							
 EN ISO 374-5:2016 VIRUS								
Chemical protection								
 EN 374:2003 XYZ	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:							
	Type C At least Level 1 performance (more than 10 minutes) against at least one chemical on the list – cuffs are also tested.*			Additional chemicals M. Nitric acid 65% N. Acetic acid 99% O. Ammonium hydroxide 25%				
	Type B At least Level 2 performance (more than 30 minutes) against at least three chemicals on the list – cuffs are also tested.*			P. Hydrogen peroxide 30% S. Hydrofluoric acid 40 % T. Formaldehyde 37%				
 EN ISO 374-1:2016 Type C								
 EN ISO 374-1:2016 Type B								
 EN ISO 374-1:2016 Type A	Type A At least Level 2 performance (more than 30 minutes) against at least six chemicals on the list – cuffs are also tested.*							
 EN ISO 374-1:2016 Type A								
	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



TRANSPORT INDUSTRY PROCESSES



1. WAREHOUSING & SHIPPING

Applications:

- Driving forklifts
- Loading/unloading trucks and vehicles
- Refrigerated transport
- Handling incoming/outgoing goods

User needs:

- Medium to high abrasion protection
- High dexterity and flexibility
- Oil repellence and grip



HyFlex® 11-840



HyFlex® 11-849



ActivArm® 97-631



Polar Grip® 23-700



2. BOARDING SERVICES

Applications:

- Handling luggage
- Driving forklifts
- Handling pallets

User needs:

- Medium to high abrasion protection
- High visibility
- Wet grip



Ringers 065



Ringers 161



ActivArm® 97-003



3. MECHANICAL MAINTENANCE

Applications:

- Assembly and disassembly of equipment
- Equipment repair and maintenance
- Repair and replacement of network equipment

User needs:

- Abrasion and puncture protection
- Dexterity, tactility
- Oil repellence and grip



HyFlex® 11-818



HyFlex® 11-926



HyFlex® 11-939



AlphaTec® 1800*
(ex. MICROGARD®)



4. CHEMICAL MAINTENANCE

Applications:

- Cleaning body parts
- Handling lubricants and cleaners
- Painting and repairing

User needs:

- Chemical protection
- Grip in both dry and oily environments
- Light to medium mechanical protection



AlphaTec® 58-735



MICROFLEX® 93-260



MICROFLEX® 93-852



AlphaTec® 2000 COMFORT -
Model 129*
(ex. MICROGARD®)



5. FUELLING

Applications:

- Refuelling planes and vehicles
- Decanting tanks
- Inspection and repair

User needs:

- Chemical resistance and grip
- Dexterity, tactility
- Thermal protection



AlphaTec® 58-735



AlphaTec® 58-535B



AlphaTec® 4000*
(ex. MICROCHEM®)



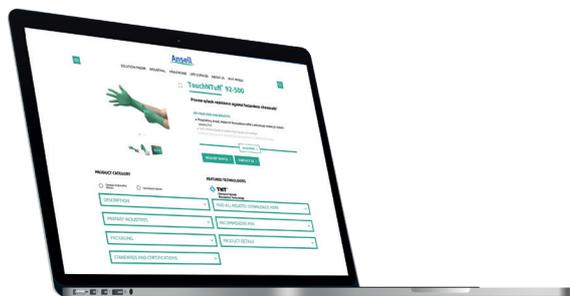
* There will be a transitional period where there will be a mix of old and newly branded products in the market. Functionality and performance of the products will remain unchanged, the current products and the new ones have the same quality and same protection.

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

HOW CAN WE HELP YOU?

Mechanical Protection
Ansell's mechanical division manufactures and markets high-performance, multi-use protection solutions specific for hand and arm protection, for a wide range of industrial applications.
[LEARN MORE >](#)

Chemical Protection
When working in chemical environments, worrying about whether workers are protected is not an option. Feel equipped with Ansell's comprehensive portfolio of chemical hand and body protection solutions.
[LEARN MORE >](#)

Disposable Protection
Designed with advanced material formulations and proprietary technologies, Ansell disposable gloves offer unique benefits like superior dexterity and grip, enhanced chemical resistance, and improved hand health.
[LEARN MORE >](#)

Safety Assessment
Ansell GUARDIAN® is our proprietary service to help companies select the right Personal Protective Equipment solution and improve their safety and business performance.
[LEARN MORE >](#)

2 News & Campaigns

IN THE NEWS

Feel EQUIPPED™
We offer the widest range of best-in-class multi-hazard protection solutions. Workers can now take advantage of increased confidence and Feel EQUIPPED.
[LEARN MORE >](#)

Redefine Your Comfort Zone™
Inadequate hand protection can lead to worker distraction, loss of focus or even glove removal leaving workers disabled/unproductive or worse potentially at risk.
[LEARN MORE >](#)

Regulatory Information
With recent changes to the EN 388 and EN ISO 374 standards, our intent is to keep you "Well Informed" with various educational tools.
[LEARN MORE >](#)

3 Newsletters: Safety Briefing

SAFETY BRIEFING

05 June 2019
Getting a Grip on Safety
Liquids and chemical compounds commonly found in (or generated by) industries such as oil and gas production, mining, assembly, stamping, metal working and manufacturing are known to be harmful to humans.
[LEARN MORE >](#)

19 March 2019
Common Misconceptions of Leather Gloves
Understanding the limitations of leather will lead to better decision making in hand protection selection. The following erroneous beliefs have given leather an undeserved reputation.
[LEARN MORE >](#)

28 June 2018
REGULATION EU 2016-425 NEW PPE REGULATION
In April 2016, when the European Parliament adopted the Regulation proposed by the EU Commission on Personal Protective Equipment, Ansell entered a new chapter in the maturation of the EU PPE industry.
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4 Ansell Solutions by Industries

Aerospace

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Automotive Aftermarket

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Chemical

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