

A close-up photograph of a male mechanic with a beard and safety glasses, wearing a grey long-sleeved shirt and black gloves. He is using a red and black cordless drill to work on the underside of a vehicle. The drill has '14-440' and 'Ansell' printed on it. The background is a blurred industrial setting with various mechanical parts and lights.

Ansell

INDUSTRY GUIDE



AUTOMOTIVE

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>Type B</div> <div>XYZ</div> <div>EN ISO 374-1:2016</div> <div>Type A</div> <div></div> <div>UVW XYZ</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. Tetrahydrofurane 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



AUTOMOTIVE INDUSTRY PROCESSES



1. PRESS SHOP

Applications:

- Press shop operations
- Handling metal sheets and panels
- Handling parts with sharp, rough edges

User needs:

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



HyFlex® 11-738



ActivArm® 70-765
(ex. Vantage)



HyFlex® 11-250



RINGERS R-065



2. BODY SHOP

Applications:

- Welding, bonding, riveting
- Handling structural and body components
- Inspection, selecting, checking parts

User needs:

- Abrasion, cut, puncture, chemical resistance
- Grip in both dry and oily environments
- Protection from sparks, molten metal splashes



HyFlex® 11-541



HyFlex® 11-939



HyFlex® 11-202



RINGERS R-065



3. MACHINING

Applications:

- Metalworking and assembly operations
- Handling rough-machined metal parts
- Assembly and inspection of components

User needs:

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



HyFlex® 11-925



HyFlex® 11-928



AlphaTec® 58-435



TouchNTuff® 93-250



4. PAINT SHOP

Applications:

- Body painting including surface inspection
- Applying sealers, touching up
- Use of cleaning tools and robotic equipment

User needs:

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



MICROFLEX® 93-260



EDGE® 76-200
(Inspection)
(ex. Stringknits™)



AlphaTec® 1800 COMFORT
(ex. MICROGARD®)



5. MOLDING

Applications:

- Press injection moulding
- Handling moulded structural parts
- Inspection of parts, equipment

User needs:

- Abrasion, cut resistance
- Grip in a dry environments
- Contact heat resistance



HyFlex® 11-541



HyFlex® 11-550



AlphaTec® 1800 COMFORT
(ex. MICROGARD®)



6. FINAL ASSEMBLY

Applications:

- Chassis assembly, body trimming
- Picking, fastening components
- Adjusting parts, systems

User needs:

- Abrasion, cut resistance
- Dexterity, tactility
- Product protection



HyFlex® 11-816



HyFlex® 11-840



HyFlex® 48-130



RINGERS R-133



7. LOGISTICS

Applications:

- Delivery of parts to production line
- Delivery of vehicles to expedition area
- Driving fork lifts, trailers

User needs:

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



HyFlex® 11-724



HyFlex® 11-751



ActivArm® 97-011



RINGERS R-161



8. MAINTENANCE

Applications:

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

User needs:

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



HyFlex® 11-849



RINGERS R-163



AlphaTec® 2000 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 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.

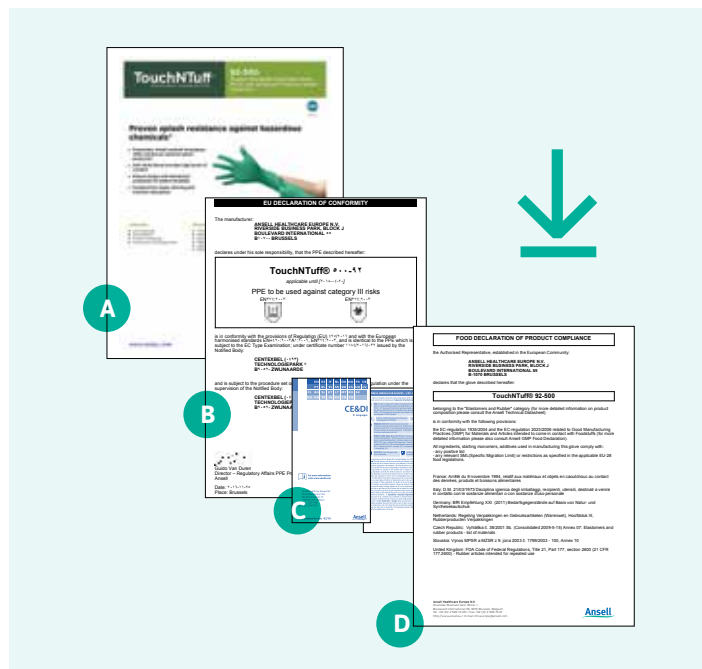
➔ www.ansell.com/industrial

PRODUCT INFORMATION



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- D** Food declarations of product conformity



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