

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 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 С D E E. e EN ISO Cut Resistance (Newtons) 2 5 10 15 22 30 4 PASS or FAIL **f** EN Impact Protection

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.

ro-organism	15								
	Performance levels				1		2	3	
N 374:2003 ↓ N level ≥ 2 S0 374-5:2016 ↓ VIRUS	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. 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.			4.0		1.5	0.65		
mical prote	ction					1			
N 374:2003 XYZ 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).				B. Acetone H C. Acetonitrile I. D. Dichloromethane J. E. Carbon disulphide K		H. Tetrahydro I. Ethyl acetat J. n-Heptane K. Sodium hyd	G. Diethylamine H. Tetrahydrofurane I. Ethyl acetate J. n-Heptane K. Sodium hydroxide 40% L. Sulphuric acid 96%	
SO 374-1:2016 Type B XYZ SO 374-1:2016 Type A	Type C At least Level 1 against at least one ch Type B At least Level 2 against at least three c Type A At least Level 2	list – cuffs are ((more than 30 ne list – cuffs an	also tested.* minutes) re also tested.*	Additional chemicals M. Nitric acid 65% N. Acetic acid 99% O. Ammonium hydroxide 25%		P. Hydrogen peroxide 30% S. Hydrofluoric acid 40 % T. Formaldehyde 37%			
UVWXYZ	against at least six che	micals on the	list – cuffs are a	also tested.*					
	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

م 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



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ActivArmr® 70-765



5. MOLDING

• Handling moulded structural parts

Inspection of parts, equipment

Press injection moulding

Abrasion, cut resistance

Contact heat resistance

• Grip in a dry environments

Applications:

User needs:

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

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



AlphaTec® 58-435



7. LOGISTICS

• Driving fork lifts, trailers

Abrasion, cut resistance

• Grip in both dry and oily

• Delivery of parts to production line

• Delivery of vehicles to expedition

• Thermal protection against cold

Applications:

User needs:

environments

weather

area

TouchNTuff® 93-250



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



h.3

Stringknits[™] 76-200 (Inspection)



AlphaTec[®] 1800 COMFORT*

🚀 8. MAINTENANCE

Applications:

- Production line support and
- maintenance
- Equipment repair and maintenance
- Assembly and disassembly of equip-
- ment

User needs:

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



MICROGARD® 1600 PLUS

HyFlex[®] 11-541



AlphaTec® 1800 COMFORT*

6. FINAL ASSEMBLY

Applications:

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

User needs:

Abrasion, cut resistance

- Dexterity, tactility
- Product protection







HyFlex[®] 48-130







*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.



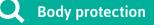
GET MORE PRODUCT INFORMATION ONLINE

Our websites provide you with easy access to our product search tools along with data/product sheets and certificates.

Q Hand and arm protection

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.

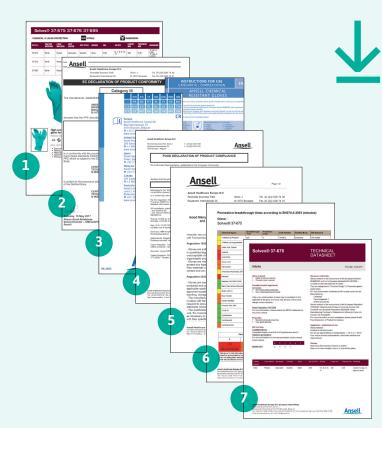
http://protective.ansell.com

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

Your search options also include various downloadable data sheets:

- 1 Product sheets
- 2 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





FOR FURTHER INFORMATION OR TO REQUEST A SAMPLE, CONTACT YOUR SALES REPRESENTATIVE.

