

**uvex**

# Winners at Work

uvex D500 foam

uvex phynomic C5

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protecting people

# Equipment



# for Winners

Get on the winner's podium with uvex!

All over the world, uvex products are helping to turn athletes into winners. Only with the right equipment can these professionals completely focus on their performance and overcome the challenge ahead.

As the world's most successful provider of equipment to top performing athletes, uvex continues to demonstrate how crucial the right equipment is for success.

In both sports and the industrial workplace, high demands are placed on people and equipment, but armed with the right equipment and safe in the knowledge they are protected, and look good, they can perform to the best of their ability

and become a

**“Winner at Work”.**

# Next Level

## uvex D500 foam

Uncompromisingly robust  
without loss of comfort

Made with the latest generation of patented uvex Bamboo TwinFlex® technology, the uvex D500 foam glove combines comfort features such as maximum flexibility, perfect fit and dexterity with outstanding cut protection performance to EN 388:2016 (level D) standard. The glove is highly resistant to abrasion, for prolonged product life and exceptional cost efficiency.

- very high cut protection (level D)
- regular fit





# Cut Protection

## uvex phynomic C5

The perfect combination of  
tactile feel and cut protection

The uvex phynomic C5 is an exceptionally lightweight, all-round cut protection safety glove (level C) with touch-sensitive feel ideally suited to high precision mechanical activities. The glove boasts excellent abrasion resistance thanks to the breathable, damp-resistant aqua-polymer foam coating. The glove is free from accelerators and has been independently dermatologically tested making it suitable for allergy sufferers.

- very high cut protection (level C)
- slim fit

# High-tech for added safety

## The latest generation of Bamboo TwinFlex® technology

uvex boosts cut protection to the next level. The comfort class together with cut protection helps increase wearer acceptance – particularly when carrying out demanding activities. The unique combination of natural bamboo and

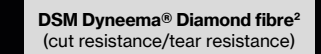
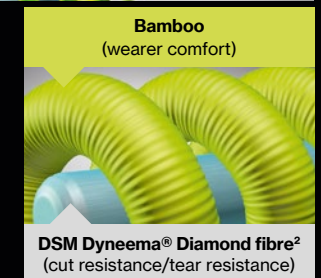
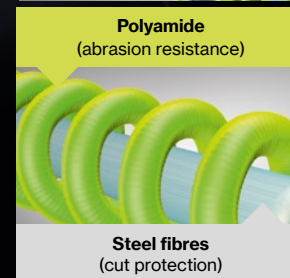
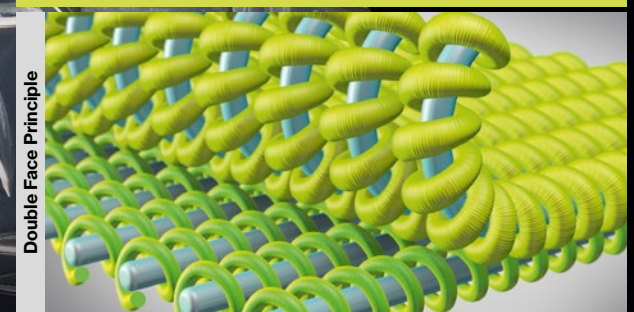
high-tech protective fibres ensures a high level of wearer comfort and good climate control while also providing effective protection. After all, a safety glove can only help to prevent accidents if the user actually wears it.

- robust and comfortable
- bamboo – environmentally friendly, renewable raw material
- cooling effect
- soft fit

**Bamboo TwinFlex® protection function**  
Cut-resistant glass fibres and abrasion-resistant polyamide guarantee optimum mechanical protection (level D).

**Comfort function**  
Silky, comfortable bamboo yarn for a soft feel and perfect climate control combined with innovative DSM Dyneema® Diamond fibres provides a further significant boost to tear and cut resistance.

### Bamboo TwinFlex® technology<sup>1</sup> (Cut protection level D)



<sup>1</sup> Bamboo TwinFlex® technology is a registered brand of UVEX SAFETY Gloves GmbH & Co. KG., Germany



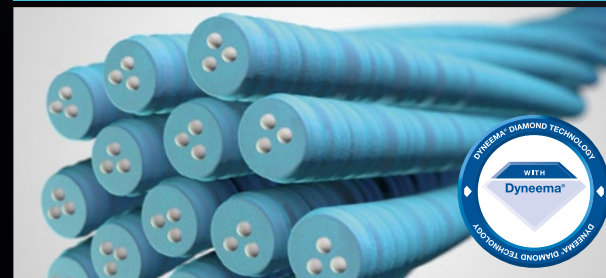
# Innovation for added precision

## DSM Dyneema® Diamond technology

Thanks to innovative DSM Dyneema® Diamond fibres with integrated micro-particles, we've been able to create a significantly thinner and more touch-sensitive cut protection safety glove.

uvex combines this high-performance fibre with comfortable elastane fibres to produce a lightweight cut protection safety glove (level C) with outstanding tactile feel.

### DSM Dyneema® Diamond technology<sup>2</sup>



# Cut protection reclassified

## Modification to the EN 388 standard for cut protection gloves

Protection classes for cut protection gloves were previously assigned in Europe in accordance with standard EN 388:2003.

Due to the continuous development of technical materials – so-called 'high-performance fibres' – it has become necessary to adjust the methods used to test and classify cut protective gloves. These changes have been implemented in standard EN 388:2016. In addition to the coup-test in accordance with EN 388:2003 the new test method in accordance to ISO 13997 has been introduced.

EN 388:2016



4 X 3 2 D

- ↑ Cut resistance in accordance with ISO 13997 (A to F)
- ↑ Puncture resistance (0 to 4)
- ↑ Tear resistance (0 to 4)
- ↑ Coup test cut resistance (0 to 5; X=not applicable or not tested)
- ↑ Abrasion resistance (0 to 4)





# Differences between both test methods

## Test procedure in accordance with EN 388:2003

- Cut resistance test using the coup test.
- Rotating circular knife moves back and forth at a constant force (5 newtons) on the test material and rotates counter to the movement.
- The index value results from the number of cycles required to the point at which the test piece is cut through, and from the degree of wear of the blade.
- Five measurements are performed in this way on each test piece. The average of the five index values confirms the corresponding performance class for the cut protection level of a safety glove.



performance class	1	2	3	4	5
index	≥ 1.2	≥ 2.5	≥ 5	≥ 10	≥ 20

No correlation can be made between the two test procedures and performance rating. The glove still offers the same high level of cut protection

in practice; the only change is to the standard-based classification of its performance.

## Test procedure in accordance with EN 388:2016/ISO 13997

- Relates to cut protection gloves made from materials that cause the blades to become blunt (i.e. glass and steel fibres).
- Additional test procedure in accordance with ISO 13997: Determination of resistance of the glove to cutting by a sharp object through single contact under higher force.
- Here, a long, straight blade is drawn once over the test piece. The minimum force required to cut through the test piece after 20 millimetres is determined in the process.
- The result is given in newtons (N) and assigned to a cut protection class.



performance class	A	B	C	D	E	F
Newton value	≥ 2	≥ 5	≥ 10	≥ 15	≥ 22	≥ 30

As a leading manufacturer of cut-protection products, we have state-of-the-art measurement technology for both

standards in our own testing laboratory, and are well placed to address questions on most matters at anytime.



# uvex cut protection at a glance

Innovative products for effective protection



**uvex D500 foam –**  
**The robust glove**  
 Very high cut protection without loss of comfort



**uvex phynomic C5 –**  
**The all-round glove**  
 Outstanding tactile feel, dermatologically approved, certified for food processing



**uvex C500M foam –**  
**The specialist glove**  
 Dirt-resistant safety glove partially reinforced thumb joints

## uvex D500 foam

Art. no.	60604
Design	knitted cuff
Standard	EN 388 (4 X 4 2 D)
Material	bamboo-rayon, Dyneema® Diamond, steel, polyamide
Coating	palm and fingertips with high-performance elastomer (HPE) and SoftGrip foam coating
Suitable for	dry areas and slightly damp areas
Colour	lime, anthracite
Sizes	7 to 11



Effective hand protection means striking the perfect balance between reliable protection and a comfortable fit – only safety gloves that are worn can fulfill their purpose. uvex is continuously developing innovative fibre and coating technologies such as the patented Bamboo TwinFlex® technology to deliver both wearer requirements.

The techniques used by uvex to combine materials such as glass or steel fibres, are key to achieving this balancing act and delivering wearer comfort and acceptance, as skin should only come into contact with fibres that are non-irritating.

For everyday use, the balance of cut and tear resistance properties is critical. The required level of cut protection is achieved through a high concentration of glass fibres, however, this could result in the tear resistance being compromised.

Features such as fit and dexterity change yet again when coatings are applied which are equally important and needed to obtain high levels of durability and ensure cost effectiveness.



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**climazone**



EN 388:2016



4 X 4 2 D

ISO Level 13997	 Precision	 All-round	 Heavy duty	
D		 uvex D500 foam	 uvex unidur 6679 foam	  
		 uvex C500	 uvex C500 dry	
C	 uvex C300 dry	 uvex phynomic C5	 uvex C300 foam	
		 uvex C500 foam	 uvex unidur 6659 foam	
		 uvex C300 wet	 uvex synexo M500	
		 uvex C500 wet	 uvex C500 wet plus	
		 uvex C500 XG	 uvex synexo impact 1	
B	 uvex unidur 6642	 uvex phynomic C3	 uvex unidur 6641	
		 uvex unidur 6648	 uvex unidur 6649	 
		 uvex unidur 6643		



Dry



Moisture/light oily



Wet/oily

For cut protective gloves with protection level E and above, uvex recommends HexArmor® products.  
[www.hexarmor.eu](http://www.hexarmor.eu)



## uvex phynomic C5

Art. no.	60081
Design	knitted cuff
Standard	EN 388 (4 X 4 2 C)
Material	Dyneema® Diamond technology, polyamide, elastane
Coating	palm and fingertips with aqua-polymer foam coating
Suitable for	dry areas and slightly damp areas
Colour	blue, grey
Sizes	6 to 12



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climazone



pure standard



EN 388:2016



4 X 4 2 C

# uvex

## A win for your team


uvex D500 foam    uvex phynomic C5

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protecting people

