

# Dräger



D-35916-2009

## **Dräger X-pect 8000** Protective Eyewear Collection

Dräger. Technology for Life®

# Expect more than safety

## **State-of-the-art protective eyewear: cover spectacles, spectacles and goggles**

Imagine living in a world without sunshine, in a world without bright colours, and without the ability to see into somebody else's eyes. Can you imagine?

The eye is the most important sensory organ. In a matter of seconds, irreparable damage may occur – dramatically changing the rest of your life! No matter whether you need professional eye protection in your daily work or for private use, the danger for your eyes is the same. Whether in the laboratory, when doing grinding or painting work, or when working with gases, vapours, or smoke, the Dräger X-pect 8000 protective eyewear collection offers a suitable model for all applications in both, professional and private use.

Dangers to the eyes can be divided into three categories:

- Mechanical: dust, invasive foreign bodies
- Chemical: gases, vapours, dust, acids
- Optical: UV radiation

One out of five industrial injuries concerns the eyes. Almost 100% of these eye accidents can be avoided. Often all that is needed is to wear well-fitting, stable protective glasses or goggles which offer effective eye protection against injury.

Driven by this knowledge, we put a lot of effort into the selection of the best collection possible, including three different types of models:

**cover spectacles, spectacles, and goggles.**



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The following three attributes have a decisive impact on the decision for or against the use of protective eyewear:

- Wearer comfort
- Safety
- Design

### **Wearer comfort**

One of the most important aspects is that spectacles don't annoy the user. Lightweight material, an ergonomic design, and an unrestricted field of vision accompanied by individual adjustability lead to high wearer comfort. Furthermore, excellent wearer comfort is also ensured with other personal protective equipment such as ear and respiratory protection, for example, with the filtering face pieces X-plore 1300 and X-plore 1700, or the half masks X-plore 3000 and X-plore 4000.

### **Safety**

All models of the X-pect 8000 safety eyewear collection are CE certified in accordance with EN 166 (Personal eye protection – specifications).



D-35 985-2009



D-36 374-2009

The quality of the lenses is defined by the optical class:

- 1 – Best class, for continuous work
- 2 – Medium quality, intermittent work
- 3 – Low quality, occasional work

All models of the X-pect 8000 safety eyewear collection belong to optical class 1 and offer the highest UV protection available. Most models feature an anti-scratch and anti-fog coating to ensure clear vision in the most arduous of situations.

### Design

Dräger's X-pect 8000 protective eyewear is characterized by a modern and sporty look, making them extremely popular for industrial, trade, or private use.

### Lens colours

The lighting conditions vary from one application to the other and therefore lens colours play an important role in the performance of your spectacles:



Clear: maximum light transmission; for general purpose



Yellow: offers enhanced contrast in poorly lit conditions


















Grey: reduces eye fatigue under glare conditions and sunlight

# Icons and markings

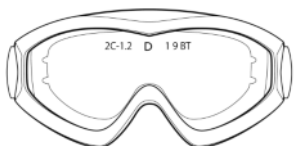
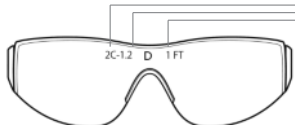
## All features at a glance

In order to make the choice for the right model easy, these icons explain the features of the models and the benefits for the users:

	<b>Anti-scratch coating</b> Long lifetime		<b>Anti-fog coating</b> Clear vision		<b>Weight</b> Lightweight
	<b>Polycarbonate</b> Unbreakable		<b>Acetate</b> Chemical-resistant		<b>Aerosols, liquids, gases</b> Best protection
	<b>Soft temple tips</b> Pressure-free		<b>Clip cord</b> Drop-down		<b>Fits with prescription lens</b> Excellent view
	<b>Temple pivoting system</b> Adaptable fit		<b>Adjustable temple length</b> Adjustable fit		<b>Soft nose pad</b> Pressure-free
	<b>Spectacles and respiratory protection fit together</b> Best protection and wearer comfort		<b>6</b> Six pieces per box		<b>10</b> Ten pieces per box

## Technical background and norms

Markings – frame markings –  
lens markings / colour



**CE**  
Symbol of conformity to EC standards

**EN 166**  
European standard for eye protection

### Symbols for field of use (goggles only)

- 3 Drops and splashes of liquids
- 4 Large dust particles
- 5 Gas and fine dust particles
- 8 Short circuit electric arc
- 9 Molten metals and hot solids

### Mechanical strength

- S Increased robustness
- FT Low-energy impact (45 m/s) at temperature extremes (-5°C / +55°C)
- BT Medium-energy impact (120 m/s), at temperature extremes (-5°C / +55°C)

Followed by the name of each model

### Filter type

- 2 UV filter
- 2C UV filter with good colour perception
- 4 Infrared filter
- 5 Glare filter
- 6 Glare filter with IR specification

### Shade number

- 1.2 Clear or amber (yellow)
- 1.7 Indoor/outdoor (IO)
- 2.5 Bronze or smoke (grey)
- 3.1 Red mirror

### Optical class

- 1 Best class, for continuous work
- 2 Medium quality, intermittent work
- 3 Low quality, occasional work

# Icons and markings

# Cover spectacles X-pect 8110

## The classic model for visitors and many applications – also fits over prescription glasses

The cover spectacles X-pect 8110 are a classic model for many different applications. They are suitable for nearly any face shape and are very easy to use – even by nonprofessionals. The cover spectacles X-pect 8110 can be worn with or without prescription glasses.

### Features and benefits:

- Large field of vision
- Molded brow guard for excellent protection against small droplets and splashes
- Lateral ventilation to minimize fog formation on prescription glasses
- Very robust due to polycarbonate material
- Clip cord additionally available to make protection disposable at any time
- Easy to use even by nonprofessionals such as visitors

### Main applications:

- Visitors to industrial plants (any industry)
- Wearers of prescription glasses wanting eye protection for regular use in the workplace
- Construction and agriculture
- Emergency personnel
- Medical assistance



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### TECHNICAL DATA

Lens material	polycarbonate
Frame material	polycarbonate
UV protection	yes
Lens colour	clear
Anti-scratch	–
Anti-fog	–
Weight (g)	45

### ORDER INFORMATION

No. of items per box	Order No.
10	R 58 247

#### Lens colour

**Clear:** maximum light transmission; used for general purpose safety spectacles



## Cover spectacles X-pect 8110

# Cover spectacles X-pect 8120

## The versatile one – very robust and adaptable to any face and can be used with or without prescription glasses

The cover spectacles X-pect 8120 combine the ability to wear prescription glasses with high wearer comfort. The adjustable temple length and angle allow them to fit to almost any face. The brow guard and the lateral protection safeguard the eyes against splashes and small droplets. They are easy to use – even by nonprofessionals.

### Features and benefits:

- Large field of vision
- Molded brow guard and lateral coverage for excellent protection against small droplets and splashes
- Adjustable temples (in length and angle) ensure an optimal fit for every face
- Lightweight: a weight of just 43 g ensures high comfort for regular use
- Clip cord additionally available to make protection disposable at any time

### Main applications:

- Wearers of prescription glasses wanting eye protection for regular use in the workplace
- Different kinds of industry
- Maintenance and construction
- Laboratory and pharmaceutical environments



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### TECHNICAL DATA

Lens material	polycarbonate
Frame material	nylon
UV protection	yes
Lens colour	clear
Anti-scratch	yes
Anti-fog	–
Weight (g)	43

### ORDER INFORMATION

No. of items per box	Order No.
10	R 58 248

#### Lens colour

**Clear:** maximum light transmission;  
used for general purpose  
safety spectacles



## Cover spectacles X-pect 8120

# Spectacles X-pect 8310

## Pure design with optimal fit and high comfort – available with clear or yellow lenses

The Dräger X-pect 8310 spectacles will impress every user with their excellent, unisex design, a crystal-clear finish, and the highest possible wearer comfort. Flat temples ensure hearing protection or a helmet can be comfortably worn in combination with these spectacles.

### Features and benefits:

- Curve 9.75 for wrap-around design offers a fantastic fit as well as a large field of vision
- Universal molded nose bridge – suitable for almost any nose shape and can be combined with respiratory protection
- Flat temples for excellent fit and comfort when combined with a helmet or hearing protection
- Extremely lightweight: a weight of just 24 g for intensive use
- Resistant polycarbonate material for a long lifetime

### Main applications:

- General industry
- Laboratory and pharmaceutical environments
- Maintenance
- Medical assistance and emergency personnel
- Athletic and private use



### TECHNICAL DATA

Lens material	polycarbonate
Frame material	polycarbonate
UV protection	yes
Lens colour	clear/yellow
Anti-scratch	yes
Anti-fog	yes
Weight (g)	24

### ORDER INFORMATION

No. of items per box	Order No.
10 (clear)	R 58 249
10 (yellow)	R 58 266
<b>Lens colours</b>	
<b>Clear:</b> maximum light transmission; used for general purpose safety spectacles	
<b>Yellow:</b> offers enhanced contrast in poorly lit conditions	



# Spectacles X-pect 8310



# Spectacles X-pect 8320

## New generation – fantastic design, ultralight, and the highest comfort for intensive use

All users who place value on design and great comfort should choose the X-pect 8320. This model offers comfort at the highest level thanks to its very low weight at only 21 g and a soft nose bridge. The optimal curve 9.5 and the wrap-around design ensure high wearer acceptance.

### Features and benefits:

- Pure design for highest user acceptance
- Ultra-lightweight at only 21 g even for extended use
- Optimal 9.5 curve and wrap around design for optimal protection
- Soft nose bridge for a good fit on any nose
- Flexible temples for minimum pressure

### Main applications:

- General industry
- Laboratory, pharmaceutical, and medical environments
- Maintenance
- Extreme atmospheric conditions (warm or cold)



### TECHNICAL DATA

Lens material	polycarbonate
Frame material	polycarbonate
UV protection	yes
Lens colour	clear/grey
Anti-scratch	yes
Anti-fog	yes
Weight (g)	21

### ORDER INFORMATION

No. of items per box	Order No.
10 (clear)	R 58 268
10 (grey)	R 58 269
<b>Lens colours</b>	
<b>Clear:</b> maximum light transmission; used for general purpose safety spectacles	
<b>Grey:</b> reduces eye fatigue under glare conditions and sunlight	



# Spectacles X-pect 8320

# Spectacles X-pect 8330

## The individualist – wrap-around design with adjustable temples and metal-free for safe work in high-voltage environments

The spectacles X-pect 8330 provide a new concept in safety eyewear by combining the best in design with the latest technology. Thanks to the innovative dielectric hinge, they offer great flexibility and are safe to wear in high-voltage environments.

### Features and benefits:

- Unique design
- Latest technology with pivoting system
- Adjustable to suit individual face shapes
- Wrap-around design and molded brow guard for optimum protection
- Innovative dielectric hinge for safe work in high-voltage environments

### Main Applications:

- General industry
- Laboratory and pharmaceutical environments
- Medical and emergency personnel
- Maintenance and specific environments (electricians, lift maintenance, etc.)
- Construction



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### TECHNICAL DATA

Lens material	polycarbonate
Frame material	polycarbonate
UV protection	yes
Lens colour	clear
Anti-scratch	yes
Anti-fog	yes
Weight (g)	27

### ORDER INFORMATION

No. of items per box	Order No.
10	R 58 267

#### Lens colour

**Clear:** maximum light transmission;  
used for general purpose  
safety spectacles



# Spectacles X-pect 8330

# Spectacles X-pect 8340

## The sportsman – combines individual adjustability and the highest wearer comfort for extended use – even in extreme conditions

The spectacles X-pect 8340 are ideal for those who want to remain safe while making a clear and trendy statement. The striking blue frame and temples incorporate a discreet angle and length adjuster for perfect sizing. A soft nose bridge and soft temple tips guarantee the highest wearer comfort.

### Features and benefits:

- Sporty and classic design
- Angle and length adjusters for a fantastic fit on every face
- Soft temple tips for high wearer comfort
- Soft nose bridge for pressure-free, extended use

### Main applications:

- General industry
- Truck drivers, couriers
- Logistics, maintenance
- Construction
- Outdoor workers



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### TECHNICAL DATA

Lens material	polycarbonate
Frame material	nylon
UV protection	yes
Lens colour	clear
Anti-scratch	yes
Anti-fog	yes
Weight (g)	27

### ORDER INFORMATION

No. of items per box	Order No.
10	R 58 270

#### Lens colour

**Clear:** maximum light transmission;  
used for general purpose  
safety spectacles



# Spectacles X-pect 8340

# Goggles X-pect 8510

## The robust one – polycarbonate or acetate lens with high chemical resistance and can be worn with prescription glasses

The soft and flexible PVC frame ensures the best possible fit for the user. Thanks to two different lens materials, they can be used in almost any application. The PC lens is very robust and the frame includes indirect ventilation. The acetate lens offers a high chemical resistance without ventilation for safe work in chemical environments.

### Features and benefits:

- Fit with other PPE, such as half masks
- Wrap-around design ensures safe fit and protection
- Easily adjustable with buckle and wide strap
- Robust polycarbonate lens with indirect ventilation
- Chemical-resistant acetate lens without ventilation for proper protection

### Main applications:

- Chemical environments
- Laboratory and pharmaceutical environments
- Petrochemical industry
- Emergency and first response personnel



### TECHNICAL DATA

Lens material	PC / AC
Frame material	PVC
UV protection	yes
Lens colour	clear
Anti-scratch	yes
Anti-fog	yes
Weight (g)	86

### ORDER INFORMATION

No. of items per box	Order No.
6 (X-pect 8510 PC)	R 58 373
6 (X-pect 8515 AC)	R 58 271



# Goggles X-pect 8520

## Premium protection – wrap-around design, lightweight, and fit perfectly over prescription glasses

With a modern design and a high level of performance, the Dräger X-pect 8520 heralds a new generation in safety goggles. The integrated shock absorption and an optimally curved frame combined with a soft brow guard and a wide, easy-to-adjust strap ensure excellent protection and the highest wearer comfort.

### Features and benefits:

- Fits with other PPE, such as half masks
- Excellent fit over prescription glasses
- Wrap-around design ensures a secure fit and protection
- Easily adjustable with buckle and wide strap
- Shock absorption included
- Soft brow guard provides protection against impact as well as dust and chemical splashes
- Optimally curved frame ensures a distortion-free field of view

### Main applications:

- Chemical environments
- Laboratory and pharmaceutical environments
- Petrochemical industry
- Emergency and first response personnel

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### TECHNICAL DATA

Lens material	polycarbonate
Frame material	PVC
UV protection	yes
Lens colour	clear
Anti-scratch	yes
Anti-fog	yes
Weight (g)	88

### ORDER INFORMATION

No. of items per box	Order No.
6	R 58 272



# More protection: masks and filters

Whenever you have to protect your eyes while working, most situations require that you protect your respiratory system as well (and vice versa). One of the most important facts for wearer acceptance is the smooth combination of respiratory protection with protective eyewear. If different types of personal protective equipment (PPE), such as ear protection, respiratory protection, or protective eyewear, are not fully compatible with one another, user acceptance of PPE can be reduced to a minimum. And this means inadequate protection.

## Dräger X-plore® 1300

The X-plore 1300 with a molded mask body combines proven and reliable respiratory protection with intelligent new ideas to ensure maximum comfort, ease of use, and high end-user acceptance. Available in all three EN protection classes, FFP1, FFP2, and FFP3, the masks provide effective protection against fine dust as well as solid and liquid particles.



## Dräger X-plore® 1700

The X-plore 1700 with its COOLSAFE™ filter material offers effective protection against fine dust, solid, and liquid particles and can be used in applications involving exposure to dust. Versions with the COOLMAX™ exhalation valve keep breathing easy and cool.



## Dräger X-plore® 3000 Twinfilter Series

The Dräger X-plore Twinfilter series meets a wide variety of needs for different users in a wide range of applications.

### Dräger X-plore 3300:

The low-maintenance version for all those who require inexpensive and comfortable respiratory protection.



### Dräger X-plore 3500:

The half mask for demanding and continuous operations. Specially equipped with the comfortable "DrägerFlex" material.



For more information: [www.draeger.com](http://www.draeger.com)

# More protection: masks and filters



## HEADQUARTERS

Dräger Safety AG & Co. KGaA  
Revalstrasse 1  
23560 Lübeck, Germany

[www.draeger.com](http://www.draeger.com)