

A man in a factory setting is wearing UVEX safety glasses and gloves, looking at a tablet. The background shows industrial equipment with labels like "UN 3480" and "I.O. QS-gepr".

uvex

uvex **CBR**

Focus on fatigue-free, comfortable vision

protecting people

[uvex-safety.co.uk](https://uvex-safety.co.uk)



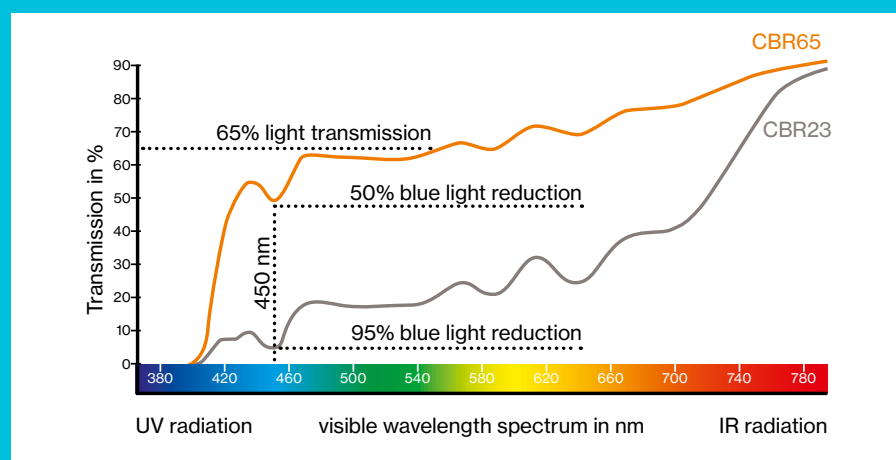
# uvex CBR lens filter technology

## Protection against UV and blue light

Blue light has several sources. It is predominantly produced by the sun, but other man-made sources also contain blue light (electronic devices such as smartphones, tablets, computers, flat-screen TV's or LED, flood lights and fluorescent lighting). In the modern workplace, new artificial lighting techniques and our exposure to screens are all becoming standard practices however, these can all put additional strain on the eyes.

The proportion of high-energy blue light in the HEV (high-energy visible light) range is particularly strenuous to the eyes, as it can cause photochemical damage to the retina. The short-term effects of this include eye strain, headaches or poor concentration, while in the long-term there is an increased risk of developing cataracts, glaucoma, dry eye, age-related macular degeneration (AMD) and other eye diseases.\* uvex CBR65 and uvex CBR23 reliably helps protect the eye against health risks without disrupting the body's internal clock (circadian rhythm).

Safety eyewear with the appropriate filter can have a dramatic effect on the quality of the wearer's vision, enhancing comfort, clarity and productivity. The uvex CBR65 and uvex CBR23 lenses enable high-contrast vision and protect against harmful blue light. The brown colour has a soothing effect which noticeably relaxes the eye and surrounding muscles. Innovative uvex coatings ensure extreme scratch-resistance and permanent anti-fog performance – ensuring you remain focused on the task.



The uvex CBR65 and CBR23 lens technology is significantly different to those of uvex UV400. They filter high-energy visible light (HEV) – which causes particular strain on the retina in the range from 380 nm to 450 nm – by up to 50 or 95%.

\*Genetics, diet, smoking, exercise, hydration, tiredness, medication and environmental factors also contribute.





# C

## Contrast enhancement

The innovative CBR lens **ensures better contrast for greater depth perception, clearer, more accurate vision**, which is particularly beneficial in hazardous situations.

# B

## Bluelight reduction

CBR23 and CBR65 provide **reliable protection against blue light**, stopping harmful rays from penetrating the eye, reducing the risk of damage to the retina.

# R

## Relaxed vision

The warm colour of the lens helps relax the muscles around the eyes. **The eyes get less tired** when concentrating for long periods.

When concentrating on a task or screen, our blink rate drops causing **dry eye**. When your eyes are relaxed and we take regular breaks from screens, you tend to blink more frequently, which helps maintain better lubrication and overall eye health.



# CBR23

Optimal protection against glare

## Contrast enhancement

The uvex CBR23 lens is designed to enhance contrast which helps wearers to distinguish objects more clearly, especially in high-glare conditions. This enhanced contrast improves depth perception and the ability to judge distances and spaces, providing clearer and more distinct visual information that supports faster reaction times. This can be particularly beneficial in hazardous environments requiring high levels of concentration and precision. With the CBR23 lens, colours are more visible than through a grey sunglare lens, for example.

## Bluelight reduction

Blue light effects the eyes in the short-term as it can cause eye strain, headaches and impact a person's ability to concentrate.

The uvex CBR23 lens reduces blue light by up to 95% at 450 nm offering protection against harmful UVA and UVB rays AND the high-energy blue light (HEV). Ideal for outdoor applications e.g. working in bright sunshine.

## Relaxed vision 23% light transmission

The softer brown lens colour helps relax the eye and surrounding muscles, reducing headaches, discomfort and fatigue caused by harsh lighting. This enables the wearer to remain focused and more productive for longer.

The number 23 indicates light transmission – the lower the number, the darker the lens tint, providing optimal protection against glare.



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# CBR65

Relaxed, comfort, vision

## Contrast enhancement

Bright light, reflective surfaces or changing light conditions can all put additional strain on the eyes which can be uncomfortable and increase feelings of fatigue.

The innovative CBR65 lens shade offers better contrast for clearer vision, helping to reduce strain on the eyes and increase comfort - ideal for indoor applications.

## Bluelight reduction

LED lights, computers and other visual display screens produce bright, harsh, unnatural light with high blue content that can pass through the eye and reach the retina. Over time this may increase the development of cataracts, glaucoma, dry eye, age-related macular degeneration (AMD) and other eye diseases\*. Safety spectacles with the unique uvex CBR65 lens shade reduces blue light by up to 50% - helping to reduce the risk of these diseases and enhance the wearer experience, even when worn for extended periods.

## Relaxed vision 65% light transmission

Whether conducting close inspection work or working outdoors, many jobs require high levels of concentration throughout the day. The slight tint of the uvex CBR65 lens delivers a relaxed field of vision, preventing the eye from getting tired too fast.

Even in particularly bright workplaces this enables the wearer to remain focused for a longer length of time without the strain.



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\*Genetics, diet, smoking, exercise, hydration, tiredness, medication and environmental factors also contribute.





## Discover the power of transparency with uvex!

Committed to the European Green Deal, we are aiming for climate neutrality by 2045 – five years ahead of the European goal. How? We're calculating, measuring, and refining processes to identify potential savings and reduce our CO<sub>2</sub> footprint. The calculations developed have been used for our benchmark planet range of products and will serve as a foundation for future design and product development processes.

Look for the CO<sub>2</sub> symbol on our products – your key to clear and reliable information for well-informed PPE choices. Scan the QR code to find out more.

uvex calculates the carbon footprint of its products using the methodology outlined in the international standard ISO 14067.\*

uvex protects people  
and the planet

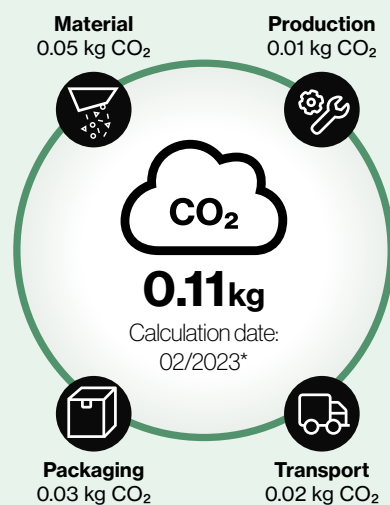


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\*We calculate carbon footprints using SimaPro software and the ecoinvent database's cut-off system model, information we collect from our suppliers and datasets based on our own measurements. The calculation method corresponds in summary: IPCC 2021 GWP 100a (based on ISO 14067) SimaPro 9.4.02 Database ecoinvent 3.8. Scope: cradle to customer. The CO<sub>2</sub> values stated apply to the calculation period and may be subject to permanent changes.

protecting people



Example: uvex pheos nxt planet safety eyewear