

## **uvex megasonic Visionary technologies at a glance**

New to the market, the uvex megasonic goggle features a revolutionary frameless lens design delivering edge-to-edge, crystal clear, optical class 1 clarity and consistency in every direction. The panoramic lens is approximately 20% larger than similar goggles giving wearers as close to natural vision as possible, eliminating the need to take safety eyewear on and off when walking on difficult surfaces or when moving between workstations — a major advantage when it comes to risk reduction.

The sporty, ergonomic design and ultra-comfortable fit means these goggles both protect and allow you to get on with your day, without distraction. Ultra-light, the flexible x-frame and super soft ergonomic face seal adapt to any wearer creating an effective, low pressure seal and maximum wearer comfort. A 30-mm wide, comfy headband keeps the goggle in the right place without the need to tighten the strap allowing long-term wearability.

The megasonic features generous 'internal volume' to accommodate prescription eyewear and frame recesses to locate the side-arms ensuring a stable and comfortable fit. This level of compatibility ensures the same level of protection across the entire workforce.

### **Types of coatings**

There are different lens coating available for safety eyewear depending on the manufacturer. Lens coatings can be either:

- hydrophobic (moisture repelling) detergent-based coatings (which can be washed off) or
- hydrophilic (moisture absorbing).

uvex hydrophilic anti-fog coatings provide unique and measurable advantages over the more commonly used hydrophobic coatings used by most other manufacturers.

Firstly, uvex coatings are 'permanent', will not deteriorate and significantly extend product life. Secondly, uvex hydrophilic coatings prevent fogging by absorbing moisture and displacing it to the periphery of the lens, where it evaporates.

Hydrophobic coatings, typically detergent based, will be eliminated following repeated cleaning, creating anti-fog performance issues and the cost of higher replacement rates. The coating works by repelling moisture, spreading the droplets across the lens. This ultimately leads to a build-up of fog on the lens which requires cleaning to remove it.

uvex (**ultraviolet excluded**) offers a range of safety eyewear with UV absorption incorporated in the lens material which filters 100% of UV rays up to 400nm. Polycarbonate lenses filter UV ensuring that most safety eyewear meets the EN166/EN170 standard which specifies UV protection up to 380 nm. However, the WHO (World Health Organisation) and latest scientific studies state that this level of protection is insufficient and recommend that safety eyewear lenses provide UV protection up to 400nm covering UVB and UVA rays.

The effects of ultraviolet radiation on the skin are well known to most: 95% associate UV radiation with skin problems and 85% know the resulting risk – melanoma. However, when it comes to exposing our eyes to UV radiation, the figures look very different: only 7% associate UV radiation with eye diseases. In addition to the skin, the eye is the most susceptible organ to damage caused by sunlight.



With only a few companies in the safety eyewear market able to offer some products with UV400 protection, uvex is in a unique position providing UV400 protection across its entire range.

True to all uvex safety eyewear, the uvex megasonic offers an impressive balance between performance, fit, comfort and style keeping eyewear where it's needed, in front of your eyes.

### **About the uvex group**

The uvex group brings together three globally active companies under one roof: the uvex safety group, the uvex sports group (uvex sports and Alpina), and the Filtral group (Filtral and Primetta). The uvex group is represented by 48 subsidiaries in 22 countries, but proudly focusses its manufacturing operations in Germany. Two-thirds of its 2600 employees (as of FY 2016/17) are employed in Germany. uvex is a global partner to international elite sport and equips a host of top athletes. The guiding principle—protecting people—is the mission and the duty of the company. To this end, uvex develops, manufactures and distributes products and services for the protection of people in sports, leisure and at work.

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