

## Phenomena from the Plant World

Nature is a fascinating and exemplary system. In a sustained process of optimisation, it has shown capabilities at which we can only marvel, or copy. For example, the way surfaces protect themselves from dirt.

### The Lotus Leaf Effect

In the process of evolution, the lotus leaf has managed to create a surface structure that prevents contamination. A water repellent layer prevents moisture or dirt from connecting with the surface. Thus, the lotus leaf provides the pattern for the development of the LotuTec™ coating from Carl Zeiss.

Initially, LotuTec™ was used on spectacles, so wearers could always enjoy clear vision, even in the rain, and dirt could be removed quickly and easily. A sensational advance, which was gratefully received.

In the next stage, the lotus leaf effect was transferred to the outer surface of the lenses in binocular and hunting optics. This means that nature watchers and hunters can now also benefit from the technical imitation of a clever natural phenomenon.

# The Brilliant Eye for the Wonders of Nature



### Without LotuTec™

As with most leaves, moisture and dirt particles collect on the surface of the lens. They connect with the structure and stick "all over" the surface.



Flat water droplets · contact angle approx. 95°

### With LotuTec™

As with the lotus leaf, water droplets are repelled from the lens. Dirt and smears are easy to remove. Neither water nor dirt is able to connect with the surface.



Contact angle >110° · elliptical water droplets

## LotuTec™ – Protective Layer for Clear Visions

### The ZEISS Visual Experience

High quality, innovative glass types, which are coated several times in an elaborate process, form the basis for the legendary ZEISS visual experience. Raindrops, dust, smears and fingerprints can impair image quality. Irritating reflections can occur, particularly when facing light. The LotuTec™ coating is a guarantee for good vision, even in the wet.



### The LotuTec™ Protective Layer

As with the surface of the lotus leaf, the LotuTec™ coating ensures that the water is repelled immediately and without residue, that dirt, grease and fingerprints do not connect with the surface of the lens and are easy to wipe off with no risk of damaging the high quality lens in the process. This makes optical devices equipped with LotuTec™ extremely easy to maintain.



All ZEISS Victory Varipoint/Diavari riflescopes and FL binoculars are equipped with LotuTec™.



### The Effective Coating Protection from Carl Zeiss

- The effective protection system for all weathers! The surface produces a repelling effect on dirt, grease and water.
- Simple and quick cleaning that is gentle on the lenses in any application.
- The lens, which is always clean, ensures the brilliant, contrast-rich visual experience.
- With LotuTec™, ZEISS binoculars and riflescopes are particularly easy to maintain.



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Carl Zeiss Sports Optics  
Gloelstraße 3-5 · Germany · 35576 Wetzlar  
www.zeiss.de/sportsoptics



We make it visible.