

How to choose HCoating anti-fog coating

Simply put, HCoating AF/NF are two anti-fog coating solutions for eyeglass lenses with different positioning, mainly used in optical labs to add a permanent anti-fog function to lenses. They are different product lines under the same brand, with the main differences being the applicable lenses and cost.

💡 HCoating AF (Anti Fog)

AF stands for "Anti Fog," meaning anti-fog. This is HCoating's premium anti-fog product, featuring "all-around" and "permanent" performance.

Superior Adhesion: Claimed to be the only product in the world that forms a permanent anti-fog film on various lens materials without a primer, covering the full refractive index range from 1.499 to 1.74, including high-index ultra-thin lenses.

Long-lasting Durability: The anti-fog effect can last for many years, and the lens will not fog even when taken from a low-temperature environment of -21°C to room temperature.

High Technical Requirements: Requires 30 seconds of UV light to cure, and sometimes subsequent heating is needed for complete curing.

💡 HCoating NF (No Fog)

NF stands for "No Fog," which also means anti-fog. This is a "budget-friendly alternative" to AF, featuring "high cost-effectiveness."

Specialized for PC Lenses: It is specifically designed for polycarbonate (PC) lenses, which typically have a refractive index of 1.59 and are very common in safety glasses.

Lower Cost: Offers performance comparable to AF but at a significantly lower price, making it a more cost-effective choice for labs that primarily handle PC lenses.

Faster Curing: Cures into a film in just 15 seconds under UV light and requires no heating at all, resulting in higher production efficiency.

📄 AF vs. NF Comparison

For a more intuitive understanding, refer to the comparison below:

Feature: AF (Premium All-around Version) | NF (Economical Practical Version)

Positioning: High-end performance, full coverage | Low cost, specialized for PC lenses

Applicable Lenses: Full refractive index lenses from 1.499-1.74 | Mainly PC (1.59) lenses

Core Advantage: Superior adhesion, wide applicability | High cost-effectiveness, fast curing time

Curing Time: 30 seconds of UV light | 15 seconds of UV light

In summary, the choice depends on the main business of the optical lab. If you handle a variety of high-index lenses, choose AF. If most of them are PC lenses, then NF is the more economical choice.