#1 ESSILOR, #1 BRAND IN EYEGLASS LENSES WORLDWIDE*

CRIZAL®

A CRYSTAL-CLEAR, NO-GLARE LENS

A MASTERPIECE OF CLARITY, PROTECTION AND DURABILITY.

ESSILOR

Crizal®

*Euromonitor, Eyewear 2020 edition; Essilor International; Retail value sales at RSP.

INSPIRED BY NATURE...

For billions of years, nature has been crafting crystals through an intricate process that combines an array of different oxides in precise quantities, producing remarkable clarity and strength. Inspired by this natural process, Essilor created its most durable and clear anti-reflective technology.

Crizal® No-Glare lenses, redefining clarity and durability.

Essilor Research and Development has spent countless hours perfecting *Crizal* technology on the molecular level. Our highly intricate process blends pure oxide in nanoscopic layers to provide excellent clarity. We combine natural minerals like silica and zirconium to produce an anti-reflective treatment inspired by the clarity and durability of crystal.

OUR STRENGTHS

- A combination of advanced technologies: anti-reflective nanolayers, embedding into the lens, and Super Hydrophobic layers.
- Focus on excellence: Each *Crizal* lens innovation is the result of a thorough R&D process, allowing us to deliver high quality lenses For The Clearest Vision Possible™.

DESIGNED BY ESSILOR.

Crizal **lenses combine technologies and nanoscopic layers to offer our best in clarity, durability, and protection. These layers are up to 50 times thinner than a strand of hair.**

Clarity

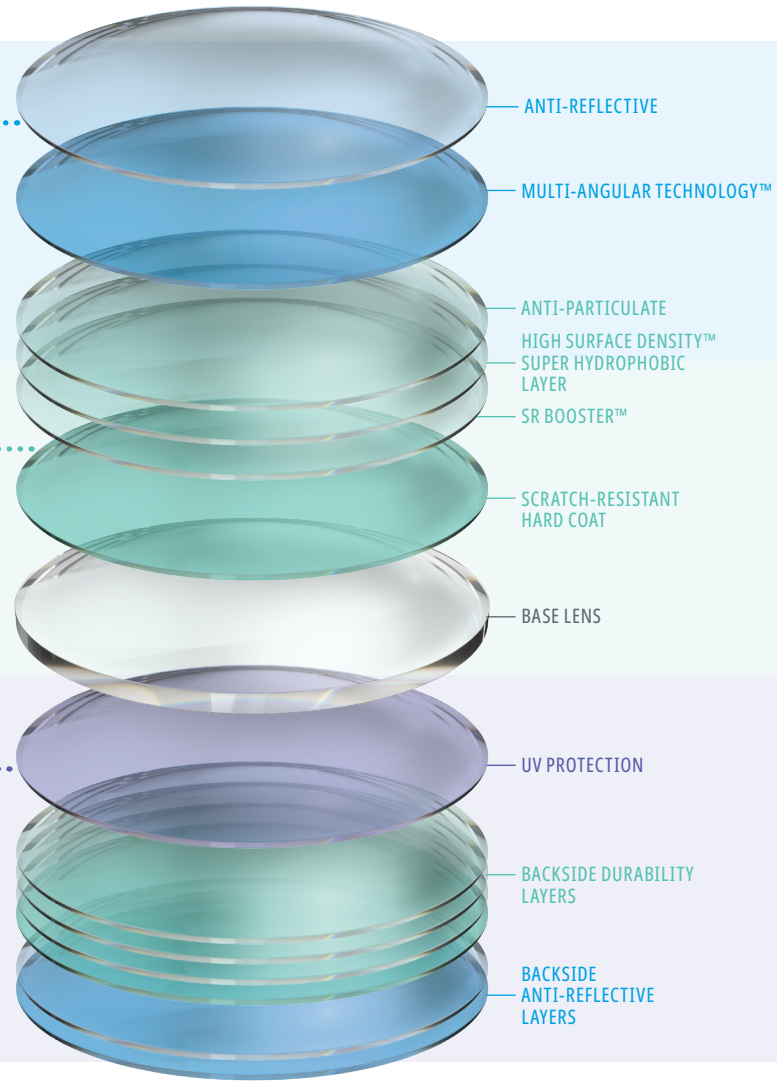
Embedded anti-reflective layers reduce glare and allow 99% of light to pass through. A patent-pending nanolayer with Multi-Angular Technology™ further enhances clarity by reducing reflections at every angle.

Durability

An embedded hard coat, combined with the SR Booster™ layer, provides excellent scratch resistance. An HSD™ Super Hydrophobic layer resists smudges and makes lenses easier to clean.

Protection

A backside protection layer helps prevent UV rays from bouncing off the back of the lens and into the eyes while the front of the lens provides up to 100% protection* from these harmful rays. With Crizal® Prevencia®, an additional layer on the front side filters up to 20% of Harmful Blue Light**.

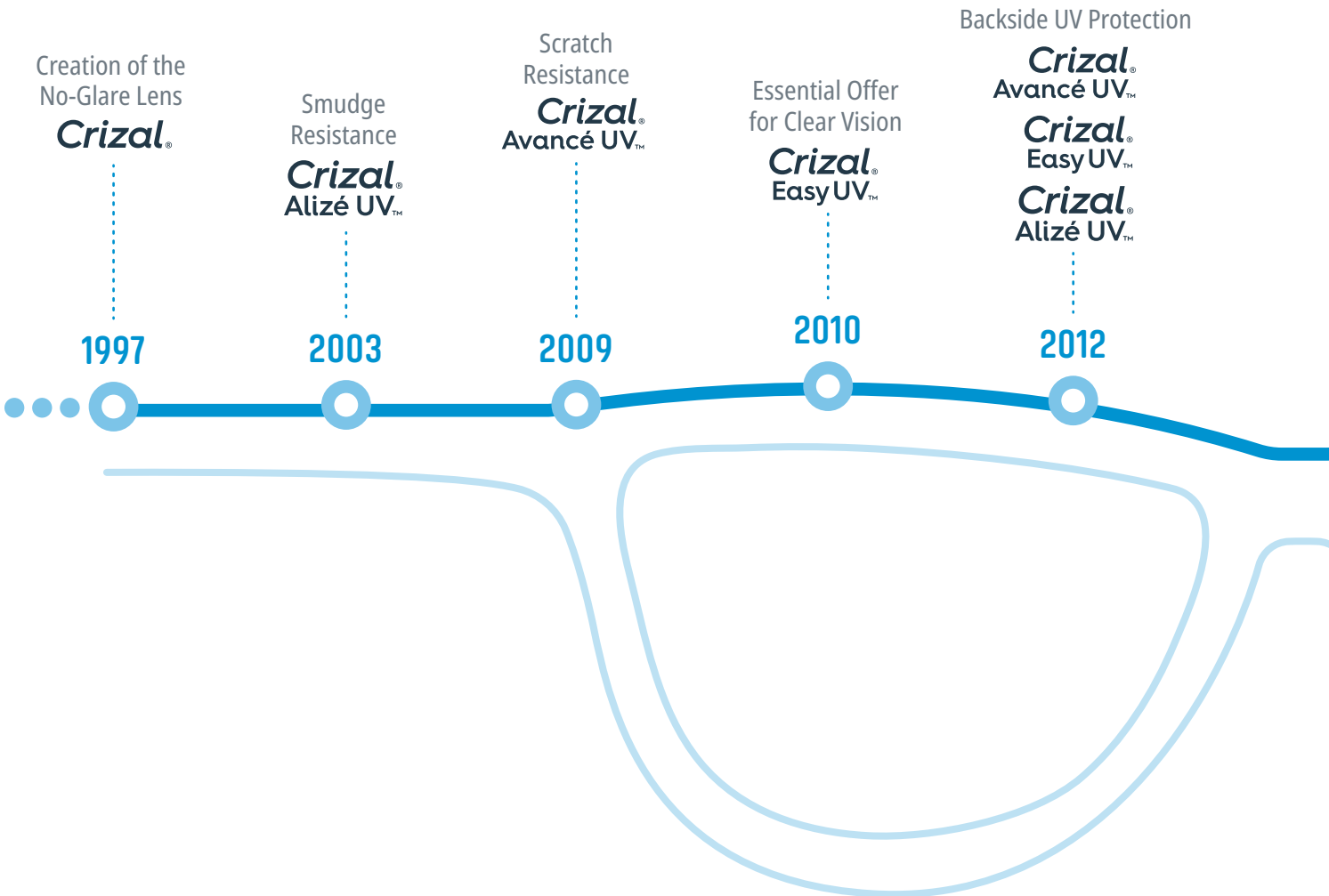


*With the exception of clear plastic (1.50) substrates.
**Harmful Blue Light is the blue-violet wavelengths between 415-455nm on the light spectrum, believed most toxic to retinal cells.
Image represents the Crizal Sapphire® 360° UV No-Glare lens treatment stack. Thickness and order of layers is for demonstration purposes only.

IT'S ABOUT

MASTERING INNOVATION

As a pioneer in the industry, Essilor has consistently introduced new innovations to *Crizal lenses*, redefining the standards of anti-reflective technologies for all patients.



* Compared with Crizal® Rock™ No-Glare treatment and depending on the lens configuration (hard-coat, index, etc.) and manufacturing process dispersion.
** Through in vitro experimentation on swine retinal cells, Essilor and the Paris Vision Institute identified the wavelengths of visible light believed most toxic retinal cells, which fall between 415-455nm on the liwght spectrum and peak at 435nm (blue-violet light).
*** Best-in-class is defined as best performance of a certain attribute within the Crizal® portfolio // *Crizal Rock* is 70% more scratch resistant than Crizal® Avancé UV™ based on Internal Sand Resistance test 2019 –compared to all previous generation of *Crizal* coating.

MULTI-ANGULAR TECHNOLOGY WITH IMPROVED UV PROTECTION

30%* LATERAL REFLECTION REDUCTION

*FOR BEST-IN-CLASS TRANSPARENCY***

20%* FEWER FRONTAL REFLECTIONS

UP TO **20%** OF HARMFUL BLUE LIGHT**IS REFLECTED

ALSO BLOCKS HARMFUL UV RAYS

UP TO **70%** MORE SCRATCH-RESISTANT THAN ITS PREDECESSOR CRIZAL® AVANCÉ UV™ FOR BEST-IN-CLASS DURABILITY***

2013 — Harmful Blue-Violet Light Protection — Crizal® Prevencia®

2017 — Multi-Angular Technology — Crizal Sapphire® 360° UV

2018 — Enhanced UV Protection — Crizal® Avancé UV™ / Crizal® Prevencia®

2021 — High-Resistance Technology™ — Crizal® Rock™

Crizal Sapphire® 360° UV

BEST-IN-CLASS CLARITY[1]

Crizal® Prevencia®

BEST-IN-CLASS PROTECTION[1]

Crizal® Rock™

BEST-IN-CLASS DURABILITY[1]

Crizal® Alizé UV™

Crizal® Easy UV™

CLARITY
DURABILITY
PROTECTION

Crizal® Alizé UV™
+ best clarity in the portfolio
+ improved durability and optimal UV protection[2]

Crizal® Alizé UV™
+ Harmful Blue Light[3] filtration
+ optimal UV protection[2]

Crizal® Alizé UV™
+ best scratch resistance in the portfolio + optimal UV protection[2]

Crizal® Easy UV™ + improved cleanability, smudge resistance and comprehensive UV protection[2]

Durable no-glare lens with comprehensive UV protection[2]

FOR THE CLEAREST VISION POSSIBLE™

Crizal® lenses are worn by millions of people around the world.

There's a *Crizal* technology for every patient, every need, and every lifestyle.

(1) Best-in-class is defined as best performance of a certain attribute within the Crizal® portfolio.

(2) In a clear lens, *Crizal Alizé UV* and *Crizal Easy UV* offer comprehensive UV protection, while Crizal Sapphire® 360° UV, Crizal® Rock™, Crizal® Prevencia®, and Crizal® Avancé UV™ offer optimal UV protection, on all lens materials except 1.50 clear plastic, the higher the E-SPF® index, the greater the level of UV protection provided by the lens // *E-SPF* is an index rating the overall UV protection of a lens. *E-SPF* was developed by Essilor International and endorsed by third party experts. The *E-SPF* index relates to lens performance only and excludes direct eye exposure that depends on external factors (wearer's morphology, frame shape, position of wear).

(3) Harmful Blue Light is the blue-violet wavelengths found between 415–455nm on the light spectrum believed most toxic to retinal cells. Harmful Blue Light protection only available with *Crizal Prevencia*. *Crizal Prevencia* No-Glare lenses filter at least 20% of Harmful Blue Light.

FOR PATIENT SATISFACTION, RECOMMEND CRIZAL® LENSES

THE LEADING NO-GLARE BRAND
FOR BOTH PATIENTS AND EYECARE PROFESSIONALS

9/10

consumers would purchase *Crizal* No-Glare lenses again**

4/5

consumers prefer *Crizal* No-Glare lenses over ordinary lenses***

VOTED READER'S CHOICE*

most favorite AR brand ten years in a row!

BRAND	Clarity	Durability	UV Protection
Crizal Sapphire® 360° UV	★★★★★	★★★★	★★★★★
Crizal® Rock™	★★★★	★★★★★	★★★★★
Competitor A	★★★	★★★	★
Competitor B	★★★★	★★½	★★★

Clarity is a function of light passing through the lens, glare reduction, and reflections on the surface of the lens. Durability is defined as durability of the AR (top coat) over time, and includes cleanability in terms of micro-scratches from heavy pressure/repeated cleaning. UV protection factors in lens technology that protects the wearer from UV rays coming in from the front AND bouncing off the back of the lens.

**Based on EyeVote results. EyeVote is a survey of eyecare professionals conducted each year by Jobson's 20/20 and Vision Monday, the eyewear industry's leading information resource.*

***(2016) Consumer study of 896 participants who purchased Crizal® lenses in connection with a promotion, conducted by Essilor.*

****(2016) Independent eyeglass wearers study of 200 participants, conducted by Dr. Han-Seok Seo at the University of Arkansas Sensory Science Laboratory and sponsored by Essilor.*

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