

# SWISSCOAT Diamond Anti-Reflection coating Technology

A new standard in organic anti-reflection coating.

Several technologies are available today for laboratories which coat plastic ophthalmic lenses. Among them, SWISSCOAT proprietary Diamond process is by far the most convincing one. On other process is so balanced and so logical. For this reason, SWISSCOAT Diamond quickly became the standard and even synonym for superior multiplayer anti-reflection coatings for ophthalmic lenses. Diamond Anti-reflection coating process is a newly improved anti-reflection coating process and this state-of-the-art technology enhances the coating quality of ophthalmic lenses, making SWISSCOAT lenses with scratch proof, clean effect hydrophobic (water-repellent, anti-dirt, anti-grease and easy-to-clean), rough handling cannot scratch the lenses, and splotchy glasses in rain and snow are now a thing of the past.

SWISSCOAT makes every pair of glasses equally well suited for works, sport and leisure activities, why not from today give your customers the best of super hard clean effect hydrophobic anti-reflection coated lenses.

SWISSCOAT attains all the quality requirements made on an Anti-reflection coating

- Increase light transmission that will improve visual properties, reducing glares, relieving eye fatigue, UV protection and improve cosmetic appearance
- Reproducibility for pairing lenses, for repurchase and for restorage
- Easy cleaning or grime prevention (e.g. with Cleanvac Effect) as specks of dirt become more visible due to Anti-reflective coating
- The Anti-reflection coating must adhere safely for lifetime of the lens

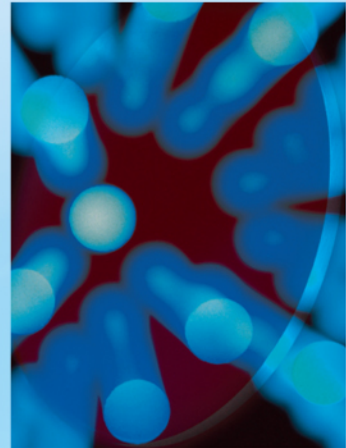
## Super qualities of SWISSCOAT Anti-Reflective coating

SWISSCOAT employs the unique process of vacuum coating technology to apply ultra hard filter multi anti-reflection coating layers on a wide range of organic and glass lenses for reducing light reflection to a maximum.

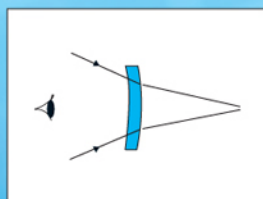
SWISSCOAT lenses attain a good light transmission rate of upto 99.5% and permits better vision in places where light intensity is low.

SWISSCOAT enhances eye beauty and allows eye expressions to be better appreciated by the elimination of glare reflected on normal lenses.

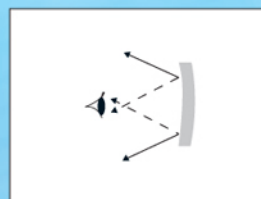
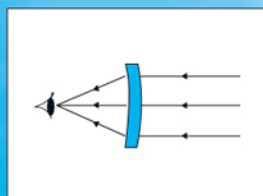
SWISSCOAT lenses, you will not only look better but you will also feel less fatigue whilst working, play sports with greater accuracy, drive more safely and generally enjoy and activity without the hindrance of ghost images or multiple reflections.



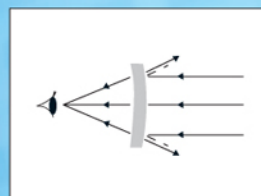
SWISSCOAT



SWISSCOAT  
TRANSMITTED LIGHT  
(ALMOST 99.5%)



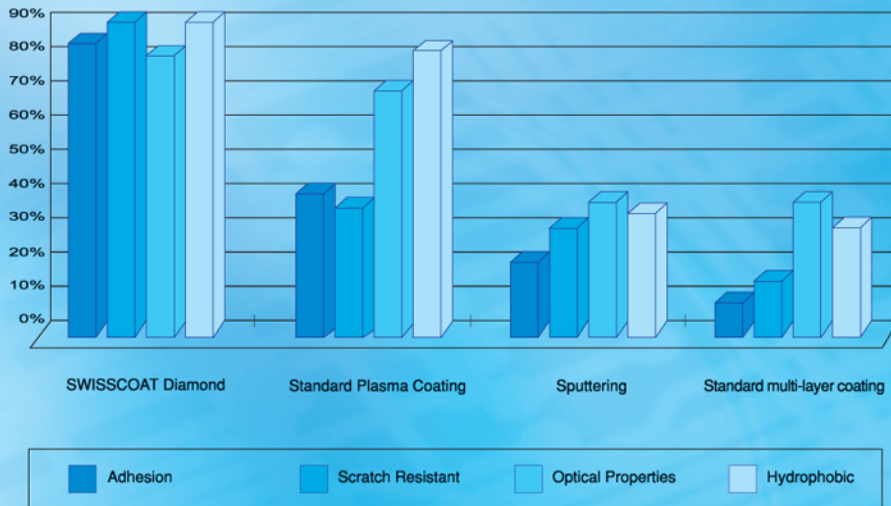
UNCOATED LENS  
(REFLECTED LIGHT  
PRODUCING GLARE)



UNCOATED LENS  
TRANSMITTED LIGHT  
(APPROX. 96%)

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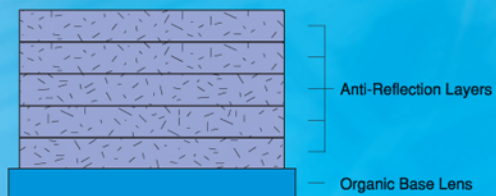
## Comparative Quality Test



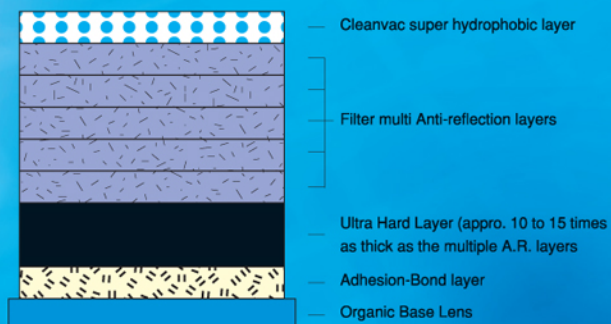
For the end user, this means that SWISSCOAT Diamond lens scratch-resistant, repels water, grease and dirt, and is therefore easy to clean.

## The general multi-layer system

General multi-layer system



## The SWISSCOAT Diamond multi-layer System



## The synthesis of the Hard layer of SWISSCOAT Diamond

Plastic lenses are organic, temperature-sensitive and comparatively soft. The issue is to apply a reflection-reducing system on this material which consists of extremely hard organic / inorganic dielectric substances.