

SCHOTT RealView® – High Index Glass Wafer for Augmented Reality



Product Information

The still unimaginable cosmos of Augmented Reality experience is expected to change our everyday life – during work, during leisure time, the way we communicate.

High index glass wafer are a key component in the optical system influencing the visual user experience, such as Field-of-View (FoV) and image quality.

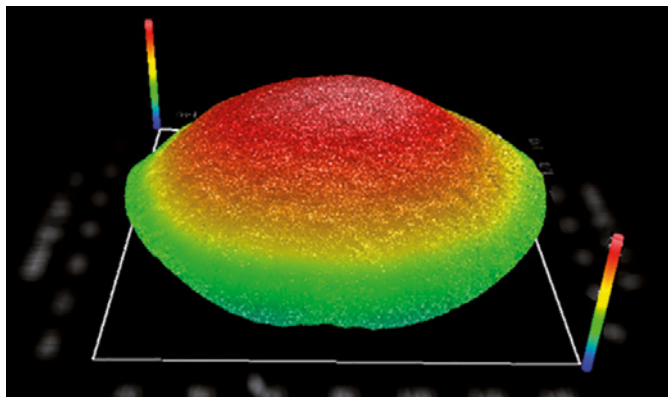
Our customers have in SCHOTT a strong partner, committed to innovation, high quality and reliable mass production.

Augmented Reality device requirement	Customizable properties of SCHOTT RealView®	Typical properties	
Field of view	Refractive index	1.5, 1.6, 1.7, 1.8, 1.9	
Image quality (resolution, contrast, brightness, ...)	High transmission	Optical glass grade	
	Low birefringence	No polarization dependency of waveguide	
	High homogeneity	Optical glass grade	
	Flatness and thickness homogeneity		TTV < 0.8 µm
			Local slope < 0.16 arcmin
			Wedge < 0.03 arcmin
			Warp* uncoated/coated < 20 µm / < 50 µm
			BOW* uncoated/coated < 10 µm / < 20 µm
	Roughness uncoated/coated	R_a < 1.0 nm / 1.5 nm	
	Anti reflective coating	Tailormade to customer requirements	
	Cosmetic	40/20 scratch/dig	
Form factor (light, weight, thin)	Low wafer thickness	≥ 0.3 mm	
	Specific weight	Depending on glass type	
	Glass strength and stability	Compatible with automated wafer handling equipment	
Mass manufacturing process	Wafer size	150 mm, 200 mm, 300 mm	
	High volume processing and quality control	Full metrology capabilities in mass production environment. Statistical process control established.	

All data can be adapted on request. Please contact your SCHOTT representative.

*depending on wafer size, thickness and coating

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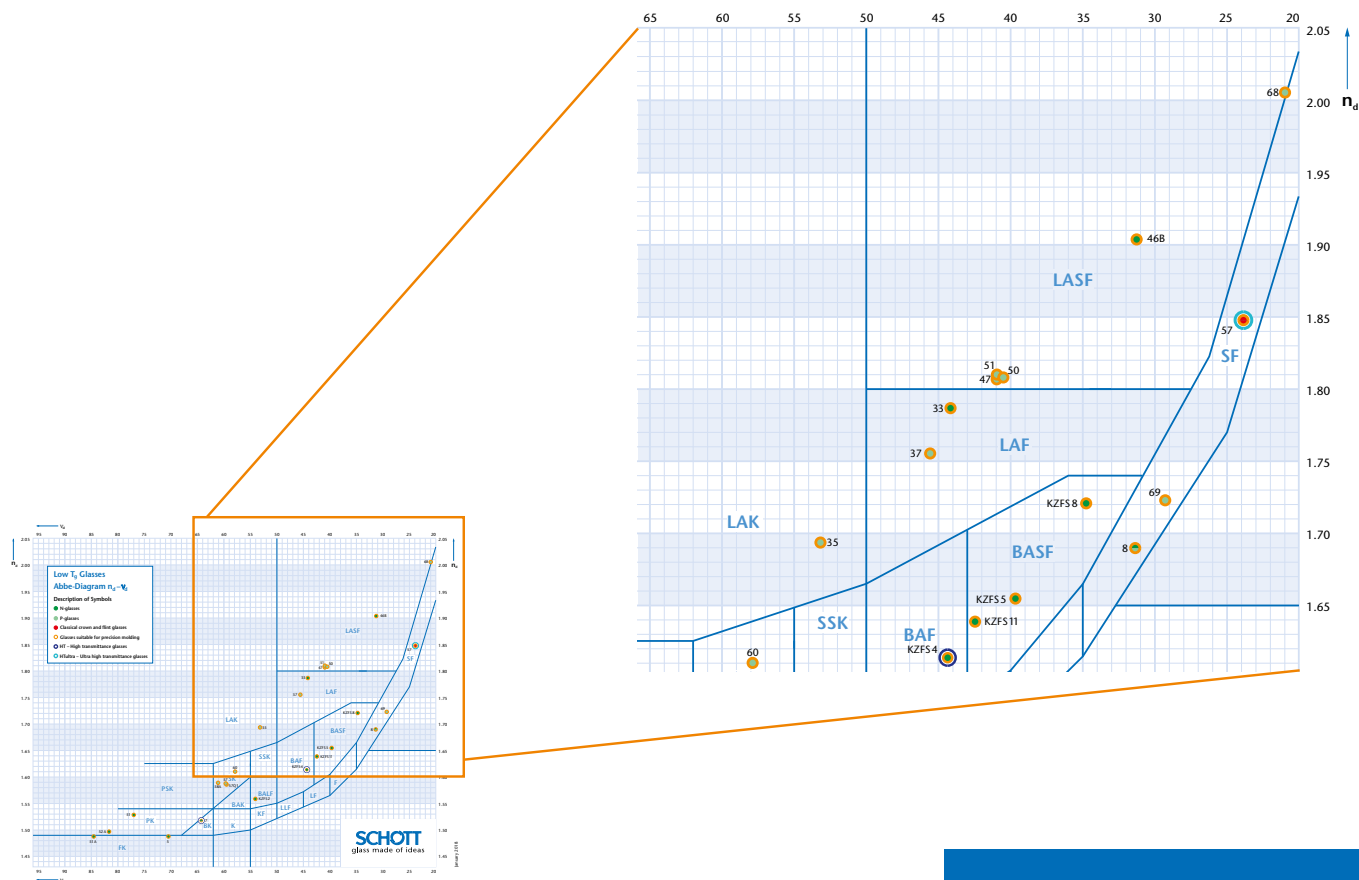
TTV Metrology



Coating Chamber

With our portfolio of more than 120 optical glasses, SCHOTT is an expert in mass manufacturing optical materials with properties tailored for our customer's applications. Our manufacturing capabilities cover raw glass melting, wafer manufacturing, optical coatings fulfilling the tightest specifications of the industry.

Our team is keen to learn more about your needs!



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