

# “HT” and “HTultra” glasses: Optical glasses with Ultra High Transmittance

## Product information

As part of its extensive portfolio of optical glass types, SCHOTT offers glass variants with superior transmittance. The additional variants with significantly improved transmittance are identified with the suffix “HT” or “HTultra”. These glasses are especially suitable for digital projection and high end optical systems. The prism glasses N-BK7HT, N-SK2HT and N-BAK4HT, the high refractive index glasses N-LASF9HT and N-LASF45HT, N-SF57HTultra and N-SF6HTultra as well as the new N-KZFS4HT also show superior transmittance values than the respective glass types offered by other suppliers.



New HT glasses guarantee outstanding color brilliance

## Advantages

- Improved transmittance especially at the blue violet spectral range  
→ improved color contribution, better mesopic vision
- Reduced “thermal lensing effect” due to higher transmittance  
→ reduced energy absorption, improved image quality
- Faster polymerization of UV active glues due to better UV transmittance  
→ time savings while processing

## Applications

- Prisms e.g. for 3D digital cinema projection, digital cameras, binoculars
- Lenses or optical components for High End HDTV and DSLR

## Supply Forms

- Components (polished prisms, lenses)
- Pressings
- Strips and blocks

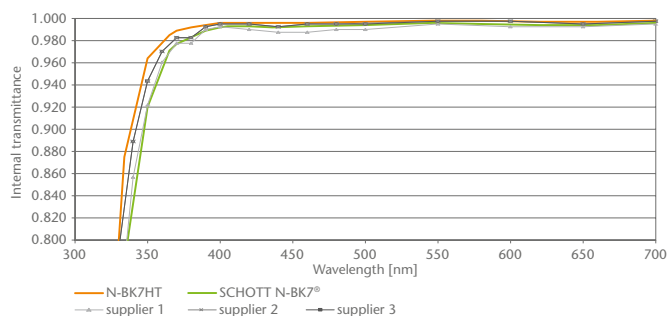
Glass	$n_d$	$v_d$	$\tau_i^{**}$	Color code
N-BK7HT	1.51680	64.17	0.998	33/29
N-BAK4HT <b>NEW</b>	1.56883	55.98	0.993	36/33
N-SK2HT	1.60738	56.65	0.996	34/30
N-KZFS4HT <b>NEW</b>	1.61336	44.49	0.985	36/32
F2HT	1.62004	36.37	0.996	35/32
N-LASF45HT	1.80107	34.97	0.886	43/35
SF6HT	1.80518	25.43	0.941	41/36
N-SF6HTultra	1.80518	25.36	0.887	43/37
N-SF6HT	1.80518	25.36	0.877	44/37
SF57HTultra	1.84666	23.83	0.924	39/36*
N-SF57HTultra	1.84666	23.78	0.830	40/37*
N-SF57HT	1.84666	23.78	0.793	41/37*
N-LASF9HT	1.85025	32.17	0.843	40/36*

\* wavelength for transmittance 0.7 and 0.05

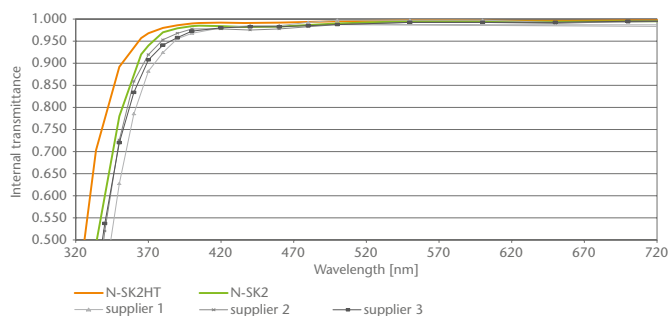
\*\* 10 mm thickness, 400 nm wavelength

# Overview of high transmittance glasses\*\*\*

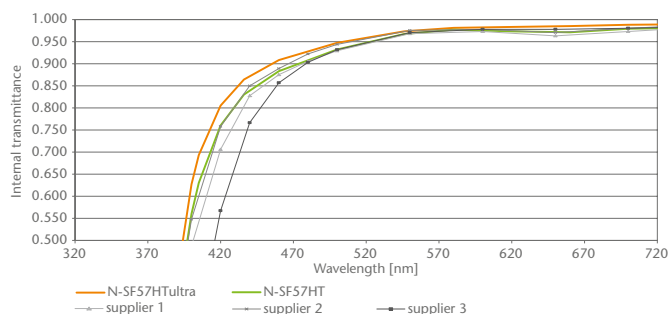
## N-BK7HT, $n_d = 1.51680$ , $v_d = 64.17$



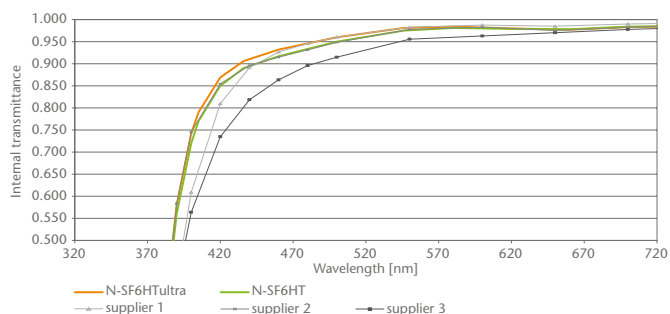
## N-SK2HT, $n_d = 1.60738$ , $v_d = 56.65$



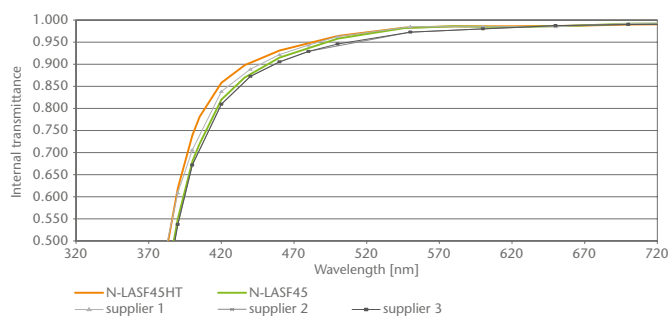
## N-SF57HTultra, $n_d = 1.84666$ , $v_d = 23.78$



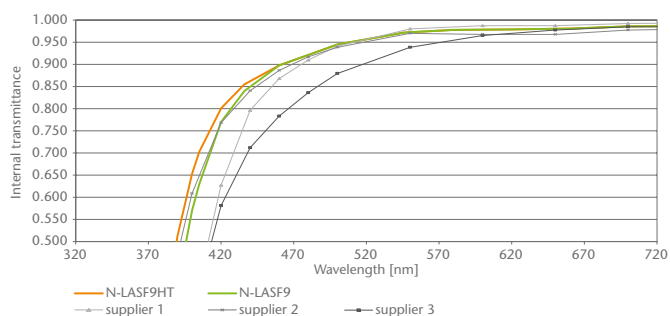
## N-SF6HTultra, $n_d = 1.80518$ , $v_d = 25.36$



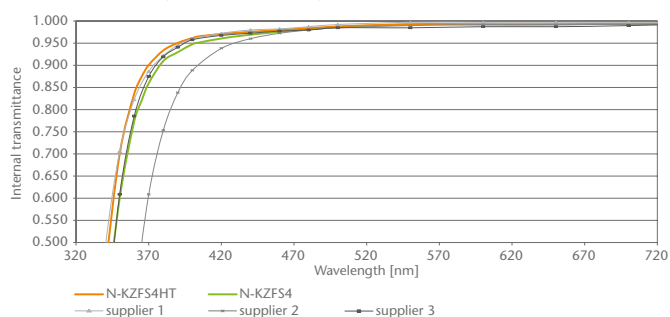
## N-LASF45HT, $n_d = 1.80107$ , $v_d = 34.97$



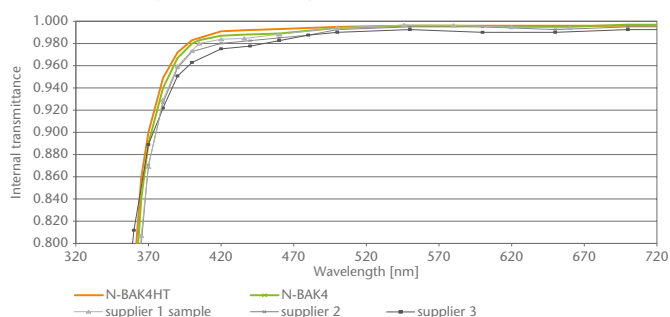
## N-LASF9HT, $n_d = 1.85025$ , $v_d = 32.17$



## N-KZFS4HT, $n_d = 1.61336$ , $v_d = 44.49$



## N-BAK4HT, $n_d = 1.56883$ , $v_d = 55.98$



\*\*\* whereas the internal transmittance curves of standard optical glasses in the datasheet comprise median values for the glass types, "HT" and "HTultra" glass internal transmittance curves are guaranteed minimum values for internal transmittance in the visible spectrum. Shown graphics are valid for 25 mm sample thickness.



Advanced Optics  
**SCHOTT AG**  
 Hattenbergstrasse 10  
 55122 Mainz  
 Germany  
 Phone +49 (0)6131/66-1812  
 Fax +49 (0)3641/2888-9047  
 info.optics@schott.com

[www.schott.com/advanced\\_optics](http://www.schott.com/advanced_optics)



Version: April 2015 | SCHOTT Advanced Optics reserves the right to make specification changes in this product flyer without notice.