

**LASER LINE ANTI-REFLECTION COATED PRECISION WINDOWS**

### Features

- Made of premium quality UV FS and BK7
- AR coated at 266 nm, 355 nm, 532 nm, 1064 nm

Precision windows are mostly used in laser systems. High quality AR multilayer coatings are applied on windows for fundamental Nd:YAG laser 1064 nm, frequency-doubled 532 nm, frequency-tripled 355 nm and

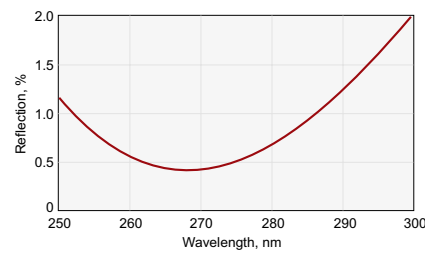
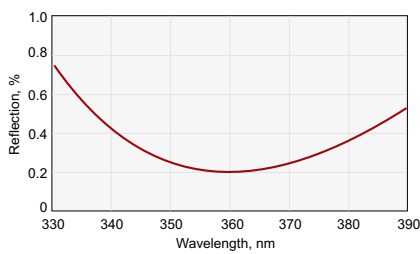
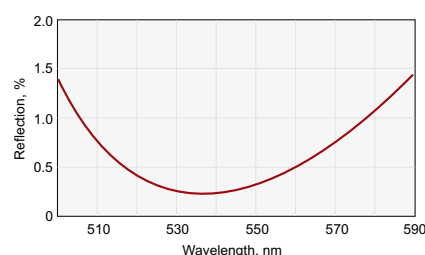
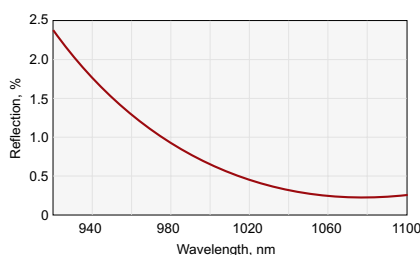
frequency-quadrupled 266 nm applications. Featuring high optical transmission with little distortion of the transmitted signal, precision windows are a good solution for applications that require protective windows.

### Specifications

Material	BK7, UV FS
Surface quality	20–10 scratch & dig (MIL-PRF-13830B)
Clear aperture	90% of the diameter
Diameter tolerance	+0.00; -0.12 mm
Thickness tolerance	±0.2 mm
Surface flatness	$\lambda/10$ @ 633 nm
Parallelism	30 arcsec or 3 arcsec

### Coating

Technology	Electron beam multilayer dielectric
Adhesion and Durability	Per MIL-C-675A. Insoluble in lab solvents
Clear Aperture	Exceeds central 85% of diameter
Damage Threshold:	
BK7	>5 J/cm <sup>2</sup> , 8 nsec pulse, 1064 nm
UV FS	>10 J/cm <sup>2</sup> , 8 nsec pulse, 1064 nm
Angle of Incidence	0 degrees
Coated Surface Flatness	$\lambda/10$ at 633 nm over clear aperture



### PARALLELISM 30 arcsec

Wavelength, nm	Diameter D, mm	Thickness T, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
266	12.7	3.0	-	-	224-1101E	79
355	12.7	3.0	-	-	223-1101E	65
532	12.7	3.0	222-0101E	51	222-1101E	65
1064	12.7	3.0	221-0101E	51	221-1101E	65
266	25.4	6.0	-	-	224-1201E	85
355	25.4	6.0	-	-	223-1201E	70
532	25.4	6.0	222-0201E	61	222-1201E	70
1064	25.4	6.0	221-0201E	61	221-1201E	70
266	38.1	8.0	-	-	224-1402E	131
355	38.1	8.0	-	-	223-1402E	126
532	38.1	8.0	222-0402E	86	222-1402E	126
1064	38.1	8.0	221-0402E	86	221-1402E	126
266	50.8	10.0	-	-	224-1502E	181
355	50.8	10.0	-	-	223-1502E	176
532	50.8	10.0	222-0502E	99	222-1502E	176
1064	50.8	10.0	221-0502E	99	221-1502E	176

## PARALLELISM 3 arcsec

Wavelength, nm	Diameter D, mm	Thickness T, mm	BK7		UV FS	
			Catalogue number	Price, EUR	Catalogue number	Price, EUR
266	12.7	3.0	-		224-1103E	96
355	12.7	3.0	-		223-1103E	82
532	12.7	3.0	222-0103E	66	222-1103E	82
1064	12.7	3.0	221-0103E	66	221-1103E	82
266	25.4	6.0	-		224-1203E	125
355	25.4	6.0	-		223-1203E	111
532	25.4	6.0	222-0203E	88	222-1203E	111
1064	25.4	6.0	221-0203E	88	221-1203E	111
266	38.1	10.0	-		224-1403E	176
355	38.1	10.0	-		223-1403E	170
532	38.1	10.0	222-0403E	121	222-1403E	170
1064	38.1	10.0	221-0403E	121	221-1403E	170
266	50.8	12.0	-		224-1503E	217
355	50.8	12.0	-		223-1503E	212
532	50.8	12.0	222-0503E	148	222-1503E	212
1064	50.8	12.0	221-0503E	148	221-1503E	212

### Related Products

Uncoated Precision Windows

See page 1.10

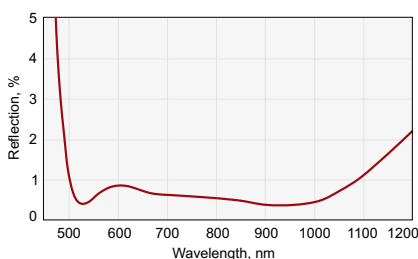
## AR COATED LENS KITS



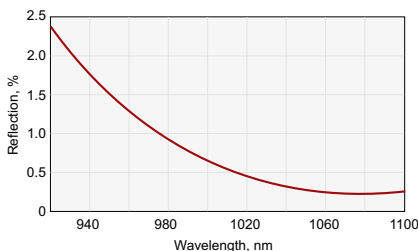
Lens kits contain different types of spherical (plano-convex, biconvex, plano-concave, biconcave) or cylindrical (plano-convex, plano-concave) lenses with various focal lengths. Kits are packed into foam lined plastic boxes for safe handling and storage. Kits are available with laser line and broadband multilayer anti-reflection coatings.

Spherical lens kits consist of 40 (large kit) or 15 (small kit) Ø25.4 mm lenses made of UVFS or N-BK7.

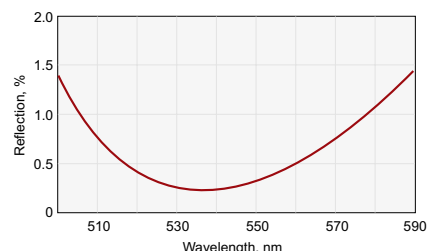
Cylindrical lens kits consist of 12 rectangular lenses (25.4 x 50.8 mm) made of UVFS or N-BK7.



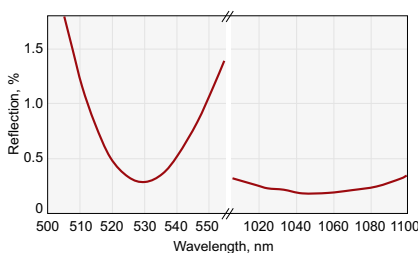
R<1.5% @ 500-1100 nm, AOI=0°



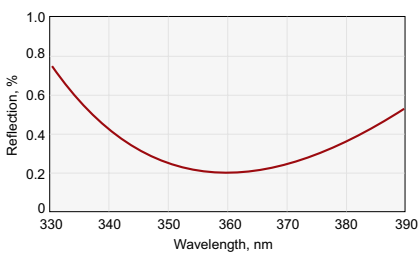
R<0.25% @ 1064 nm, AOI=0°



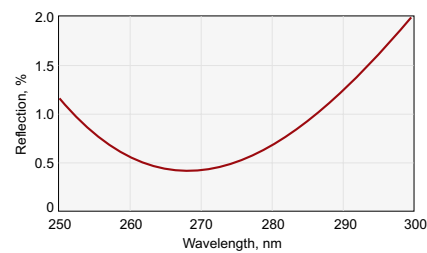
R<0.25% @ 532 nm, AOI=0°



R<0.5% @ 532 nm+1064 nm, AOI=0°



R<0.25% @ 355 nm, AOI=0°



R<0.4% @ 266 nm, AOI=0°