

## Standard Plano-Convex Axicons

### SPECIFICATIONS

Material	BK7, UV FS
Surface quality	60-40 scratch & dig (MIL-PRF-13830B)
Clear aperture	90% of the diameter
Diameter tolerance	+0.00 -0.12 mm
Angle tolerance	±0.5°
Surface irregularity	1 λ @ 633 nm

Catalogue number		Diameter D, mm	Apex angle φ, deg	Price, EUR BK7 / UV FS
BK7	UV FS			
130-0240	130-1240	25.4	140	160 / 283
130-0260	130-1260	25.4	160	160 / 283
130-0265	130-1265	25.4	165	160 / 283
130-0270	130-1270	25.4	170	160 / 283
130-0275	130-1275	25.4	175	160 / 283
130-0278	130-1278	25.4	178	160 / 283
130-0360	130-1360	30.0	160	197 / 350
130-0365	130-1365	30.0	165	197 / 350
130-0370	130-1370	30.0	170	197 / 350

### Coated Lenses Ordering Information

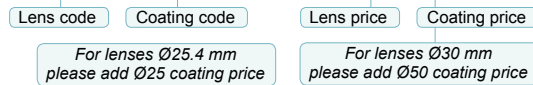
Please choose relevant coating from anti-reflection coatings section (pages 1.5 - 1.6). The coating code and price should be added to the lens code and price.

#### Example:

BK7 axicon Ø30 mm, apex 160°, coated AR/AR@400-700 nm, AOI=0°

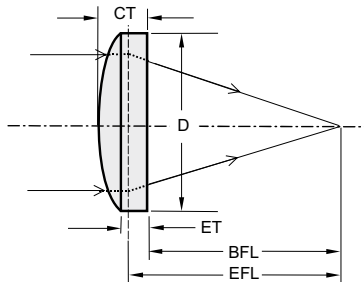
Code: **130-0360 + 3217-i0**,

Price: 197 + 67 EUR= 264 EUR/pc.



## PRECISION ASPHERICAL LENSES

Aspherical lenses are designed to reduce spherical aberration. Complex multi-lens systems designed for compensation of spherical aberration can often be replaced with a single aspheric lens. We can produce aspherical lenses of custom design using your drawings or specifications in our CNC lens polishing facility.



### SPECIFICATIONS

Standard material	N-BK7	[1.517]
[Refractive index]	S-LAH64	[1.788]
	UVFS	[1.453]
Design wavelength	780 nm	
Surface quality	40-20 scratch & dig (uncoated)	
Clear aperture	>90% of diameter	
Diameter tolerance	+0.0 -0.05 mm	
Bevel	0.3 mm max @ 45°	
Center thickness tolerance	≤0.05 mm	
EFL tolerance	≤0.1%	
Asphere figure error P-V	±1 μm	
Surface form deviation RMS	≤0.5 μm	

Substrate	Substrate	D, mm	EFL, mm	BFL, mm	CT, mm	Price, EUR
116-1210	S-LAH64	12.5	10	7.6	4.3	130
115-1225	N-BK7	12.5	25	22.4	4.0	130
116-2520	S-LAH64	25.0	20	15.7	7.6	170
115-2550	N-BK7	25.0	50	46	6.0	170
117-2530	UVFS	25.4	30	24.5	8.0	320
117-2540	UVFS	25.4	40	35.9	6.0	320
117-2550	UVFS	25.4	50	46.6	5.0	320
117-2560	UVFS	25.4	60	56.6	5.0	320
116-5040	S-LAH64	50.0	40	31.3	15.5	310
115-5100	N-BK7	50.0	100	93.4	10.0	310