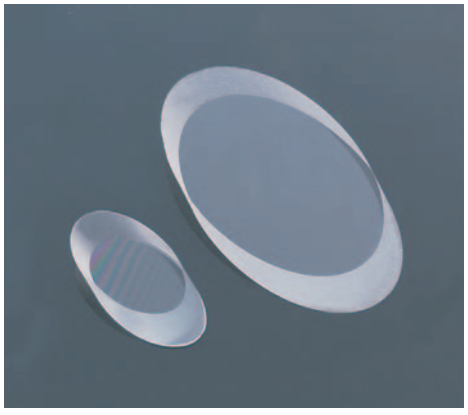
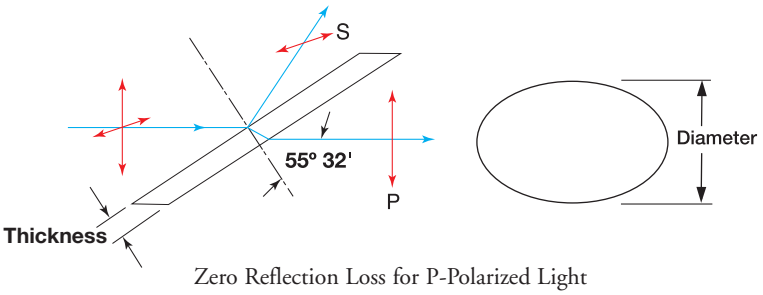


Brewster Windows

Brewster Windows are uncoated substrates that are designed to be used at Brewster's Angle (the angle at which p-polarized light incident on the surface is not reflected). Brewster's Angle is calculated from:

$$B = \tan^{-1}(n)$$

where B is Brewster's Angle and n is the index of refraction of the material. At this angle, p-polarization reflectance drops to zero. When used in a laser cavity, a Brewster Window reduces the cavity loss for p-polarized light over s-polarized light. The result of preferentially reducing the loss along one polarization axis is that the laser will emit linearly polarized light.

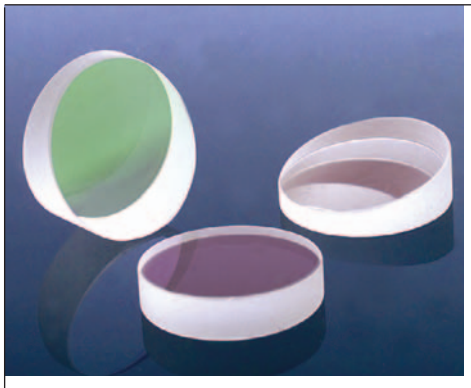


Zero Reflection Loss for P-Polarized Light

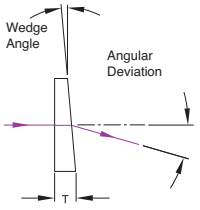
Specifications

- **Material:** UV Fused Silica
- **Parallelism:** ≤5arcsec
- **Thickness Tolerance:** ±0.1mm
- **Surface Quality:** 10-5 Scratch Dig
- **Transmitted Wavefront:** λ/20
- **Brewster Angle:** 55° 32′
- **Minor Axis Tolerance:** +0.00/–0.13mm

ITEM#	DIAMETER	THICKNESS	$	£	€	RMB
BW0601	6.0mm	1.0mm	$ 73.00	£ 46.00	€ 67,90	¥ 697.20
BW0801	8.0mm	1.0mm	$ 94.00	£ 59.20	€ 87,40	¥ 897.70
BW0802	8.0mm	2.0mm	$ 115.00	£ 72.50	€ 107,00	¥ 1,098.30
BW0902	9.0mm	2.0mm	$ 117.00	£ 73.70	€ 108,80	¥ 1,117.40
BW1302	13.0mm	2.0mm	$ 156.00	£ 98.30	€ 145,10	¥ 1,489.80
BW1602	16.0mm	2.0mm	$ 156.00	£ 98.30	€ 145,10	¥ 1,489.80



Round Wedged Flats



Specifications

- **Material:** BK7, Grade A
- **Dimensional Tolerance:** ±0.15mm
- **Diameter:** 25.4mm +0.0/–0.3
- **Angular Tolerance:** ±30arcsec
- **Surface Quality:** 40-20 Scratch-Dig
- **Surface Flatness:** λ/10
- **Design Wavelength:** 633nm
- **Thin Edge of Wedge:** 3.00mm

Wedge Flats are used primarily in laser beam steering applications. A beam normal to the perpendicular surface of the prism is deflected through the "Angular Deviation" shown in the price box. By combining two prisms that can be rotated independently, it is possible to direct the beam anywhere within the cone angle defined by 4 times the "Angular Deviation" of a single wedge.

Standard Broadband AR Coatings
To order the wedged flat with a standard broadband AR Coating, add the coating code to the Item#, and add the coating cost to the flat's price.

COATING	WAVELENGTH	$	£	€	RMB
-A	350-650nm	$ 9.20	£ 5.80	€ 8,60	¥ 87.90
-B	650-1050nm	$ 9.20	£ 5.80	€ 8,60	¥ 87.90
-C	1050-1620nm	$ 12.20	£ 7.70	€ 11,30	¥ 116.50

Example: PS810 Coated with 350-650nm Broadband AR Coating is PS810-A and the cost would be $29.90 + $9.20 = $39.10.

ITEM #	PRICE UNCOATED (Add suffix for coated lens) $	£	€	RMB	ANG. DEV.*	T (mm)	WEDGE ANGLE	POWER DIOPTERS
PS810	$ 29.90	£ 18.80	€ 27,80	¥ 285.50	2°	4.72	3° 53'	3.5
PS811	$ 29.90	£ 18.80	€ 27,80	¥ 285.50	4°	6.43	7° 41'	7.0
PS812	$ 29.90	£ 18.80	€ 27,80	¥ 285.50	6°	8.11	11° 22'	10.5
PS813	$ 29.90	£ 18.80	€ 27,80	¥ 285.50	8°	9.74	14° 52'	14.1
PS814	$ 29.90	£ 18.80	€ 27,80	¥ 285.50	10°	11.33	18° 9'	17.6

*Angular Deviation