

Brewster Prisms

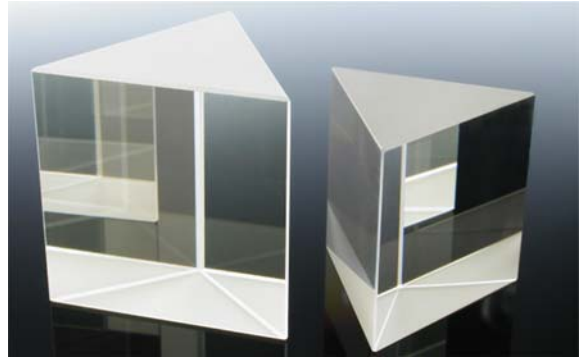
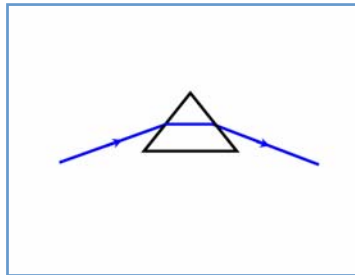
Brewster prisms are dispersing prisms which have been arranged so that a beam entering at the Brewster angle undergoes minimum deviation and hence maximum dispersion.

They are used to fine tune lasers by selection of multi-spectral lines.

By altering the angle of inci-

dence slightly it is possible to enhance certain wavelengths and eliminate others. These prisms have a very low loss for the p-polarized beam.

If required for group velocity dispersion correction in femto-second lasers please ask for the ultra-fast version.



These prisms are made from UV fused silica or SF10:

UVFS ($n_d = 1.46$, $v_d = 67.8$)

SF10 ($n_d = 1.73$, $v_d = 28.5$)

The accuracy of these prisms is controlled by the precision of the prism angles. They are made to an accuracy of 10 arc minutes.

The apex angle, θ is:

UVFS 69.1°

SF10 60.6°



We offer Brewster prisms uncoated but special coatings can be applied on request.

We can supply Brewster prisms in the following standard sizes (in mm):

Material	Base	Height	Thickness
UVFS	17.0	12.4	15.0
SF10	15.1	13.0	15.0
SF10	25.2	21.6	25.0

Other sizes will be considered on special request.

Typical Specifications	
Material:	UVFS, SF10
Surface flatness:	$\lambda/8$ @ 633 nm
Surface quality:	10/5
Angular deviation:	< 3 arcmin
Dimensions:	+0.0 / -0.2 mm
Clear aperture:	> 85% of face

To request a quote or to order, please specify:

Quantity — Material — Base Size — Coating (if required)

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For a quotation — please phone, fax or email us with details of your requirements.