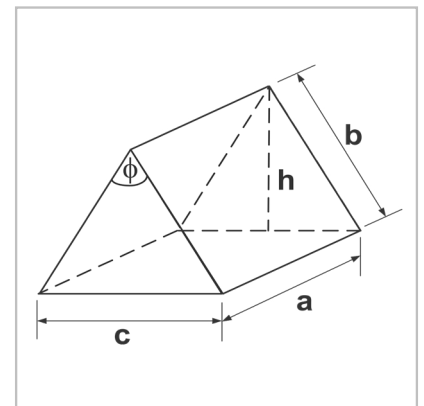


Isosceles Brewster Prisms

The isosceles Brewster prism is primarily used in beam deflection and compensation of GVDs (group velocity dispersion) in fs laser applications. The cathetus is placed inside the beam path at the Brewster angle. Hereby the light that is polarized parallel to the surface is transmitted almost without any loss and light that is polarized perpendicular to the surface is reflected to a large extent.

On account of these properties, isosceles Brewster prisms are offered without a coating.



Nomenclature

IB	-12.4	-69.1	-UV
Product code (Isosceles Brewster Prism)	Height h in mm	Apex angle ϕ in degree	Material code UV: fused silica SF: SF10 S1: Suprasil®1

Specifications

Material	Fused silica, SF10, Suprasil®1
Dimension tolerance	+ 0.00 mm; - 0.25 mm
Angle tolerance	± 2 arcmin
Surface figure	3/0.25 according to ISO 10110 $\lambda/8$ according to MIL-O-1380A
Surface quality	5/4 x 0.063 for 1.0" substrates according to ISO 10110 20-10 according to MIL-O-1380A
Protective chamfer	0.2 - 0.4 mm x 45°
Clear aperture	85 % of the dimensions

Part No.	Altitude h [mm]	Dimension a [mm]	Dimension b [mm]	Dimension c [mm]	Apex Angle ϕ [°]	Material
IB-10.5-68.7-S1	10.5	7.9	12.7	17.4	68.7	Suprasil® 1
IB-15.0-68.7-S1	15.0	12.70	18.20	20.60	68.7	Suprasil® 1
IB-19.0-68.7-S1	19.0	12.70	23.00	26.00	68.7	Suprasil® 1
IB-12.4-69.1-UV	12.4	15.00	15.00	17.00	69.1	Fused Silica
IB-13.0-60.6-SF10	13.0	15.00	15.00	15.10	60.6	SF10
IB-21.6-60.6-SF10	21.6	25.00	25.00	25.20	60.6	SF10

Most items are available from stock. Other sizes and materials are available upon request.

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