

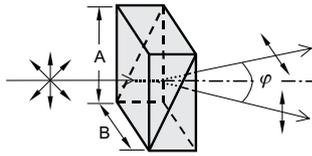
WOLLASTON PRISMS

- Split a beam into two orthogonally polarized divergent beams
- Made from the finest optical grade natural calcite

Wollaston prism polarizers consist of two equal calcite prisms. Both output beams are almost equally deviated. Angular separation of output beams depends on wavelength. The use of highest grade calcite provides useful transmission covering the 300–2200 nm range.

Prisms mounted in black aluminium mounts M2P or M2Ps are available.

For mount's drawing and mounting suggestion, see page 1.48.



SPECIFICATIONS

Material	Natural calcite
Surface quality	40-20 scratch & dig (MIL-PRF-13830B)
Wavelength range	300–2200 nm
Extinction ratio	1:10 ⁻⁵
Separation angle	10 or 20 deg
Dimension tolerance	±0.25 mm

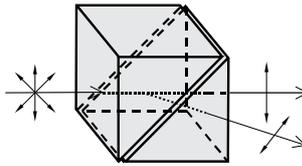
Catalogue number		Standard dimensions A × B, mm	Beam separation φ, deg	Price, EUR	
unmounted	mounted			unmounted	mounted
450-2101	450-2101-M2Ps	10 × 10	10	428	478
450-2121	450-2121-M2Ps	12 × 12	10	517	567
450-2141	450-2141-M2P	14 × 14	10	545	595
450-2102	450-2102-M2Ps	10 × 10	20	468	518
450-2122	450-2122-M2Ps	12 × 12	20	555	605
450-2142	450-2142-M2P	14 × 14	20	582	632

Other sizes, better quality, different spectral ranges or AR coatings are available on request.

To order wollaston prism with a AR coating (see page 1.5) add the catalogue number and coating price to the prism code and price.

ROCHON POLARIZING PRISMS

Rochon polarizer is made of two α-BBO prisms cemented together. The first prism, cut parallel to the optic axis, receives the light; the second, with the optic axis at right angles, transmits the ordinary ray without deviation but the extraordinary ray is deflected. A Rochon prism can be used to produce plane-polarized light and it can also be used with ultraviolet light. Any separation angle can be designed for specific wavelength upon request.



SPECIFICATIONS

Material	α-BBO
Wavelength range	200–3500 nm
Extinction ratio	1:10 ⁻⁵
Surface quality	20-10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	λ/4 at 633 nm
Beam deviation	<3 arcmin
Separation angle	8–14 deg (8 deg @1064nm)
Coating	Single layer MgF ₂
Mount	Black anodized aluminium

Catalogue number	Clear aperture Ø, mm	Outer mount Ø, mm	Price, EUR
455-2108	8.0	25.4	549
455-2110	10.0	25.4	699
455-2115	15.0	30.0	950

COATINGS

WINDOWS & FILTERS

MIRRORS

LENSES

PRISMS

POLARIZING OPTICS

UV & IR OPTICS