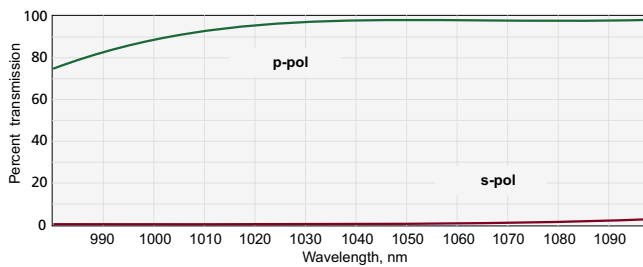


## CUBE POLARISING BEAMSPLITTERS

- Durable and convenient
- Optimised for popular laser wavelengths

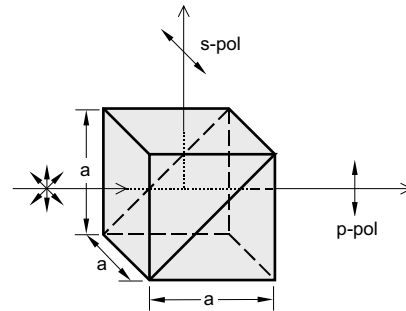
Polarising film is coated on the internal face of a cube beamsplitter. Thin film polarisers utilize the polarization which occurs on reflection deviated by 90° angle. Cube polarizing beamsplitters can be optimized for a particular wavelength to give superior performance for laser application can be optimised for a particular wavelength to give superior performance for laser applications.

Please contact us for polarising cubes with an extinction ratio of up to  $T_p/T_s > 500:1$



Typical transmission curve @ 1064 nm

The four outer faces are all anti-reflection coated.



### SPECIFICATIONS

Material	BK7, UV FS
Surface quality	40–20 scratch & dig
Surface flatness	$\lambda/4$ @ 633 nm
Clear aperture	90% of the face size
Beam deviation	<3 arcmin
Dimension tolerance	$\pm 0.3$ mm
Laser Damage Threshold	0.3 J/cm <sup>2</sup> 10 ns pulses at 1064 nm

### BK7 glass, $T_p/T_s > 200:1$

Catalogue number	Wavelength range, nm	Reflection s-pol, %	Transmission p-pol, %	Side a, mm	Price, EUR
430-0101	532	$R_s > 99.5$	$T_p > 95$	10 × 10	135
430-0151	532	$R_s > 99.5$	$T_p > 95$	15 × 15	165
430-0201	532	$R_s > 99.5$	$T_p > 95$	20 × 20	185
430-0251	532	$R_s > 99.5$	$T_p > 95$	25 × 25	215
430-0102	780	$R_s > 99.5$	$T_p > 95$	10 × 10	135
430-0152	780	$R_s > 99.5$	$T_p > 95$	15 × 15	165
430-0202	780	$R_s > 99.5$	$T_p > 95$	20 × 20	185
430-0252	780	$R_s > 99.5$	$T_p > 95$	25 × 25	215
430-0103	1064	$R_s > 99.5$	$T_p > 95$	10 × 10	135
430-0153	1064	$R_s > 99.5$	$T_p > 95$	15 × 15	165
430-0203	1064	$R_s > 99.5$	$T_p > 95$	20 × 20	185
430-0253	1064	$R_s > 99.5$	$T_p > 95$	25 × 25	215

### UV Fused Silica, $T_p/T_s > 100:1$

Catalogue number	Wavelength range, nm	Reflection s-pol, %	Transmission p-pol, %	Side a, mm	Price, EUR
430-1103	280	$R_s > 99$	$T_p > 90$	10 × 10	290
430-1153	280	$R_s > 99$	$T_p > 90$	15 × 15	350
430-1203	280	$R_s > 99$	$T_p > 90$	20 × 20	390
430-1105	308	$R_s > 99$	$T_p > 90$	10 × 10	280
430-1155	308	$R_s > 99$	$T_p > 90$	15 × 15	340
430-1205	308	$R_s > 99$	$T_p > 90$	20 × 20	380
430-1107	355	$R_s > 99$	$T_p > 90$	10 × 10	270
430-1157	355	$R_s > 99$	$T_p > 90$	15 × 15	330
430-1207	355	$R_s > 99$	$T_p > 90$	20 × 20	380

Please contact us if you need polarising beamsplitters of other wavelengths, other sizes or other configurations.

### HOUSING ACCESSORIES

- Prism Holders 840-0160, 840-0170
- See page 5.73