

DUAL BAND MIRRORS

Substrate

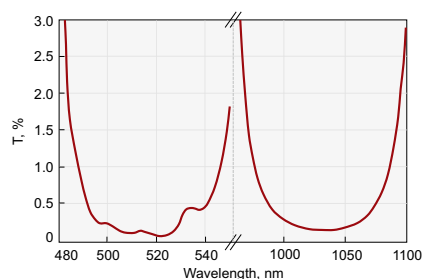
Material	UV grade Fused Silica or BK7 glas
S1 Surface Flatness	$\lambda/10$ at 633 nm
S1 Surface Quality	20-10 scratch & dig (MIL-PRF-13830B)
S2 Surface Quality	Commercial polish
Diameter Tolerance	+0.00 mm; -0.12 mm
Thickness Tolerance	± 0.25 mm
Wedge	< 3 min
Chamfer	0.3 mm at 45° typical

Coating

Coating	Electron beam multilayer dielectric
Angle of Incidence	0 or 45 $\pm 3^\circ$
Designed for average polarization	$R=(R_s+R_p)/2$
Laser Damage Threshold	>50 mJ/cm ² , 50 fsec pulse, 50 Hz, 800 nm typical

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Substrate material: **BK7 grade A**



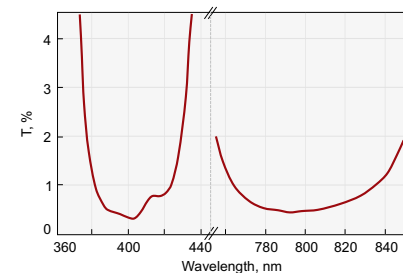
HR>99.5% @ 500-530 nm + 1000-1060 nm, AOI = 45°

Wavelength, nm	AOI=0°			AOI=45°		
	R, % (s+p)/2	Catalogue number	Price, EUR	R, % (s+p)/2	Catalogue number	Price, EUR
Size – Ø12.7 × 3 mm						
390-410 + 780-820	99.7	051-4080-i0	94	99.5	051-4080	94
500-530 + 1000-1060	99.7	051-5103-i0	94	99.5	051-5103	94
Size – Ø12.7 × 6 mm						
390-410 + 780-820	99.7	051-4080T6-i0	94	99.5	051-4080T6	94
500-530 + 1000-1060	99.7	051-5103T6-i0	94	99.5	051-5103T6	94
Size – Ø25.4 × 6 mm						
390-410 + 780-820	99.7	052-4080-i0	113	99.5	052-4080	113
500-530 + 1000-1060	99.7	052-5103-i0	113	99.5	052-5103	113
Size – Ø50.8 × 8 mm						
390-410 + 780-820	99.7	055-4080-i0	166	99.5	055-4080	166
500-530 + 1000-1060	99.7	055-5103-i0	166	99.5	055-5103	166
Size – Ø76.2 × 12.7 mm						
390-410 + 780-820	99.7	057-4080-i0	250	99.5	057-4080	250
500-530 + 1000-1060	99.7	057-5103-i0	250	99.5	057-5103	250

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Substrate material: **UV grade Fused Silica**

Recommended for high power laser applications operating in UV region.



HR>99% @ 400 nm + 800 nm, AOI = 45°

Wavelength, nm	AOI=0°			AOI=45°		
	R, % (s+p)/2	Catalogue number	Price, EUR	R, % (s+p)/2	Catalogue number	Price, EUR
Size – Ø12.7 × 3 mm						
390-410 + 780-820	99.7	061-4080-i0	121	99.5	061-4080	121
500-530 + 1000-1060	99.7	061-5103-i0	121	99.5	061-5103	121
Size – Ø12.7 × 6 mm						
390-410 + 780-820	99.7	061-4080T6-i0	121	99.5	061-4080T6	121
500-530 + 1000-1060	99.7	061-5103T6-i0	121	99.5	061-5103T6	121
Size – Ø25.4 × 6 mm						
390-410 + 780-820	99.7	062-4080-i0	141	99.5	062-4080	141
500-530 + 1000-1060	99.7	062-5103-i0	141	99.5	062-5103	141
Size – Ø50.8 × 8 mm						
390-410 + 780-820	99.7	065-4080-i0	235	99.5	065-4080	235
500-530 + 1000-1060	99.7	065-5103-i0	235	99.5	065-5103	235
Size – Ø76.2 × 12.7 mm						
390-410 + 780-820	99.7	067-4080-i0	353	99.5	067-4080	353
500-530 + 1000-1060	99.7	067-5103-i0	353	99.5	067-5103	353