

METAL COATED MIRRORS

EKSMA OPTICS offers various size round, rectangular, spherical mirrors protected gold, silver or aluminium.

Metallic mirrors are widely used due to a moderate level of reflection over a very broad spectral range. Protected gold coatings have the highest reflectance in IR, silver is most efficient in VIS, while aluminium is economical reflector over entire 300-IR region.

A layer of dielectric material protects the coatings of the mirrors in order to make them durable. Enhanced metallic coatings provide greater reflection across the operating bandwidth.

As metallic coatings modify the state of polarization of an incident beam, they are inappropriate for polarization sensitive applications.

Type	Average reflection, %	Wavelength, nm	Laser Induced Damage Threshold at 1064 nm, 50 Hz, 11 nsec, J/cm ²
Protected aluminium	>86	300-IR	0.25
Protected silver	>96	400-IR	1.8
Protected gold	>98	900-IR	1.0

* Laser Induced Damage Threshold results are measured according to ISO 21254-2: 1000-on-1 test procedure.

Specifications for Flat Substrates

Material	BK7, UV FS
S1 Surface Flatness	$\lambda/10$ @ 633 nm
S1 Surface Quality	40 – 20 scratch & dig (MIL-PRF-13830B)
S2 Surface Quality	Commercial polish
Clear Aperture	>90% of the diameter
Wedge	<3 min

Specifications for Spherical Substrates

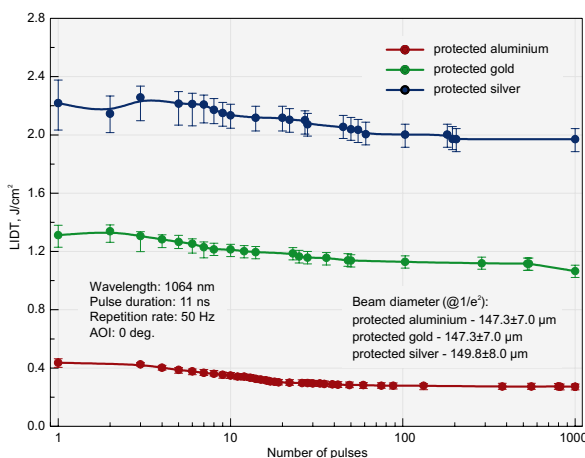
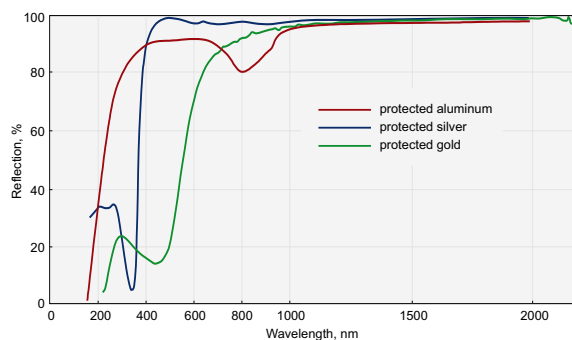
Material	BK7, UV FS
S1 (curved) Surface Flatness	$\lambda/10$ @ 633 nm
S1 (curved) Surface Quality	40 – 20 scratch & dig (MIL-PRF-13830B)
S2 (plane) Surface Quality	Commercial polish
Clear Aperture	>90% of the diameter
Diameter Tolerance	0.00 / -0.13 mm
Thickness Tolerance	± 0.2 mm

PROTECTED ALUMINIUM MIRRORS

Features

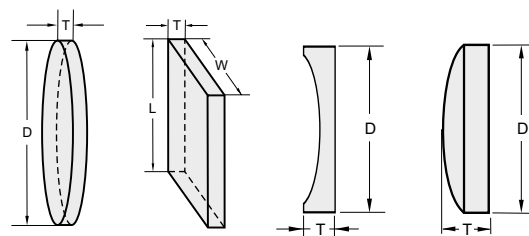
- LIDT – 0.25 J/cm² at 1064 nm, 50 Hz, 11 nsec pulses*
- LIDT – 0.1 J/cm² at 355 nm, 50 Hz, 5.7 nsec pulses*
- Average Reflection >86% for 300 nm – IR
- BK7, UVFS, Zerodur® substrates available
- Round, Square and Flat or Spherical Mirrors available
- OEM capabilities - please contact for special pricing

* Laser Induced Damage Threshold results are measured according to ISO 21254-2: 1000-on-1 test procedure.



Comparison of Protected Ag, Al and Au Mirrors @ 1064 nm, 50 Hz, 11 nsec

Protected Aluminium (Al) Mirrors serve as an economical reflector over entire 300-IR region. Enhanced metallic coatings provide greater reflection across the operating bandwidth.



Drawings of flat round, flat rectangular and spherical mirrors

Flat Rectangular Mirrors. Substrate type: plano-plano

Width W, mm	Length L, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
15.0	20.0	6.0	BK7	091-0315	22
20.0	30.0	6.0	BK7	092-0315	29
25.4	25.4	6.0	BK7	093-0315	27
25.4	50.8	10.0	BK7	094-0315	60
50.8	50.8	10.0	BK7	095-0315	90
15.0	20.0	6.0	UV FS	091-3315	36
20.0	30.0	6.0	UV FS	092-3315	47
25.4	25.4	6.0	UV FS	093-3315	45
25.4	50.8	10.0	UV FS	094-3315	95
50.8	50.8	10.0	UV FS	095-3315	135

Spherical Mirrors. Diameter, D = 12.7 mm. Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	091-0115R-50	35
-75	Plano-concave	BK7	091-0115R-75	35
-100	Plano-concave	BK7	091-0115R-100	35
-150	Plano-concave	BK7	091-0115R-150	35
-200	Plano-concave	BK7	091-0115R-200	35
-250	Plano-concave	BK7	091-0115R-250	35
-300	Plano-concave	BK7	091-0115R-300	35
-400	Plano-concave	BK7	091-0115R-400	35
-500	Plano-concave	BK7	091-0115R-500	35
-1000	Plano-concave	BK7	091-0115R-1000	35
-1500	Plano-concave	BK7	091-0115R-1500	35
-2000	Plano-concave	BK7	091-0115R-2000	35
-50	Plano-concave	UV FS	091-3115R-50	45
-75	Plano-concave	UV FS	091-3115R-75	45
-100	Plano-concave	UV FS	091-3115R-100	45
-150	Plano-concave	UV FS	091-3115R-150	45
-200	Plano-concave	UV FS	091-3115R-200	45
-250	Plano-concave	UV FS	091-3115R-250	45
-300	Plano-concave	UV FS	091-3115R-300	45
-400	Plano-concave	UV FS	091-3115R-400	45

Spherical Mirrors. Diameter, D = 25.4 mm. Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	092-0115R-50	55
-75	Plano-concave	BK7	092-0115R-75	55
-100	Plano-concave	BK7	092-0115R-100	55
-150	Plano-concave	BK7	092-0115R-150	55
-200	Plano-concave	BK7	092-0115R-200	55
-250	Plano-concave	BK7	092-0115R-250	55
-300	Plano-concave	BK7	092-0115R-300	55
-400	Plano-concave	BK7	092-0115R-400	55
-500	Plano-concave	BK7	092-0115R-500	55
-600	Plano-concave	BK7	092-0115R-600	55
-750	Plano-concave	BK7	092-0115R-750	55
-800	Plano-concave	BK7	092-0115R-800	55
-1000	Plano-concave	BK7	092-0115R-1000	55
-1500	Plano-concave	BK7	092-0115R-1500	55
-2000	Plano-concave	BK7	092-0115R-2000	55
-2500	Plano-concave	BK7	092-0115R-2500	55
-3000	Plano-concave	BK7	092-0115R-3000	55
-4000	Plano-concave	BK7	092-0115R-4000	55
-5000	Plano-concave	BK7	092-0115R-5000	55
-6000	Plano-concave	BK7	092-0115R-6000	55
-8000	Plano-concave	BK7	092-0115R-8000	55

Flat Round Mirrors. Substrate type: plano-plano

Diameter D, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
12.7	3.0	BK7	091-0015	20
12.7	6.0	BK7	091-0015T6	20
25.4	6.0	BK7	092-0015	25
50.8	8.0	BK7	095-0015	80
76.2	12.7	BK7	097-0015	160
101.6	15.0	BK7	098-0015	260
12.7	3.0	UV FS	091-3015	30
12.7	6.0	UV FS	091-3015T6	30
25.4	6.0	UV FS	092-3015	35
50.8	8.0	UV FS	095-3015	120
76.2	12.7	UV FS	097-3015	195
101.6	15.0	UV FS	098-3015	340

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-500	Plano-concave	UV FS	091-3115R-500	45
-1000	Plano-concave	UV FS	091-3115R-1000	45
-1500	Plano-concave	UV FS	091-3115R-1500	45
-2000	Plano-concave	UV FS	091-3115R-2000	45
+50	Plano-convex	BK7	091-0215R+50	37
+75	Plano-convex	BK7	091-0215R+75	37
+100	Plano-convex	BK7	091-0215R+100	37
+150	Plano-convex	BK7	091-0215R+150	37
+200	Plano-convex	BK7	091-0215R+200	37
+300	Plano-convex	BK7	091-0215R+300	37
+400	Plano-convex	BK7	091-0215R+400	37
+500	Plano-convex	BK7	091-0215R+500	37
+50	Plano-convex	UV FS	091-3215R+50	48
+75	Plano-convex	UV FS	091-3215R+75	48
+100	Plano-convex	UV FS	091-3215R+100	48
+150	Plano-convex	UV FS	091-3215R+150	48
+200	Plano-convex	UV FS	091-3215R+200	48
+300	Plano-convex	UV FS	091-3215R+300	48
+400	Plano-convex	UV FS	091-3215R+400	48
+500	Plano-convex	UV FS	091-3215R+500	48

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	UV FS	092-3115R-50	70
-75	Plano-concave	UV FS	092-3115R-75	70
-100	Plano-concave	UV FS	092-3115R-100	70
-150	Plano-concave	UV FS	092-3115R-150	70
-200	Plano-concave	UV FS	092-3115R-200	70
-250	Plano-concave	UV FS	092-3115R-250	70
-300	Plano-concave	UV FS	092-0115R-300	70
-400	Plano-concave	UV FS	092-0115R-400	70
-500	Plano-concave	UV FS	092-3115R-500	70
-600	Plano-concave	UV FS	092-3115R-600	70
-750	Plano-concave	UV FS	092-3115R-750	70
-800	Plano-concave	UV FS	092-3115R-800	70
-1000	Plano-concave	UV FS	092-3115R-1000	70
-1500	Plano-concave	UV FS	092-3115R-1500	70
-2000	Plano-concave	UV FS	092-3115R-2000	70
-2500	Plano-concave	UV FS	092-3115R-2500	70
-3000	Plano-concave	UV FS	092-0115R-3000	70
-4000	Plano-concave	UV FS	092-3115R-4000	70
-5000	Plano-concave	UV FS	092-3115R-5000	70
-6000	Plano-concave	UV FS	092-0115R-6000	70
-8000	Plano-concave	UV FS	092-0115R-8000	70

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+50	Plano-convex	BK7	092-0215R+50	59
+75	Plano-convex	BK7	092-0215R+75	59
+100	Plano-convex	BK7	092-0215R+100	59
+150	Plano-convex	BK7	092-0215R+150	59
+200	Plano-convex	BK7	092-0215R+200	59
+300	Plano-convex	BK7	092-0215R+300	59
+400	Plano-convex	BK7	092-0215R+400	59
+500	Plano-convex	BK7	092-0215R+500	59
+600	Plano-convex	BK7	092-0215R+600	59
+800	Plano-convex	BK7	092-0215R+800	59
+1000	Plano-convex	BK7	092-0215R+1000	59
+1500	Plano-convex	BK7	092-0215R+1500	59
+2000	Plano-convex	BK7	092-0215R+2000	59
+4000	Plano-convex	BK7	092-0215R+4000	59
+5000	Plano-convex	BK7	092-0215R+5000	59

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+50	Plano-convex	UV FS	092-3215R+50	75
+75	Plano-convex	UV FS	092-3215R+75	75
+100	Plano-convex	UV FS	092-3215R+100	75
+150	Plano-convex	UV FS	092-3215R+150	75
+200	Plano-convex	UV FS	092-3215R+200	75
+300	Plano-convex	UV FS	092-3215R+300	75
+400	Plano-convex	UV FS	092-3215R+400	75
+500	Plano-convex	UV FS	092-3215R+500	75
+600	Plano-convex	UV FS	092-3215R+600	75
+800	Plano-convex	UV FS	092-3215R+800	75
+1000	Plano-convex	UV FS	092-3215R+1000	75
+1500	Plano-convex	UV FS	092-3215R+1500	75
+2000	Plano-convex	UV FS	092-3215R+2000	75
+4000	Plano-convex	UV FS	092-3215R+4000	75
+5000	Plano-convex	UV FS	092-3215R+5000	75

Spherical Mirrors. Diameter, D = 50.8 mm. Thickness (edge for plano-concave, center for plano-convex), T = 10.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-100	Plano-concave	BK7	095-0115R-100	118
-150	Plano-concave	BK7	095-0115R-150	118
-200	Plano-concave	BK7	095-0115R-200	118
-250	Plano-concave	BK7	095-0115R-250	118
-300	Plano-concave	BK7	095-0115R-300	118
-400	Plano-concave	BK7	095-0115R-400	118
-500	Plano-concave	BK7	095-0115R-500	118
-600	Plano-concave	BK7	095-0115R-600	118
-800	Plano-concave	BK7	095-0115R-800	118
-1000	Plano-concave	BK7	095-0115R-1000	118
-1500	Plano-concave	BK7	095-0115R-1500	118
-2000	Plano-concave	BK7	095-0115R-2000	118
-2500	Plano-concave	BK7	095-0115R-2500	118
-3000	Plano-concave	BK7	095-0115R-3000	118
-4000	Plano-concave	BK7	095-0115R-4000	118
-5000	Plano-concave	BK7	095-0115R-5000	118
-6000	Plano-concave	BK7	095-0115R-6000	118
-8000	Plano-concave	BK7	095-0115R-8000	118
-10000	Plano-concave	BK7	095-0115R-10000	118
-100	Plano-concave	UV FS	095-3115R-100	143
-150	Plano-concave	UV FS	095-3115R-150	143
-200	Plano-concave	UV FS	095-3115R-200	143
-250	Plano-concave	UV FS	095-3115R-250	143
-300	Plano-concave	UV FS	095-3115R-300	143
-400	Plano-concave	UV FS	095-3115R-400	143
-500	Plano-concave	UV FS	095-3115R-500	143
-600	Plano-concave	UV FS	095-3115R-600	143
-800	Plano-concave	UV FS	095-3115R-800	143
-1000	Plano-concave	UV FS	095-3115R-1000	143
-1500	Plano-concave	UV FS	095-3115R-1500	143
-2000	Plano-concave	UV FS	095-3115R-2000	143
-2500	Plano-concave	UV FS	095-3115R-2500	143
-3000	Plano-concave	UV FS	095-3115R-3000	143
-4000	Plano-concave	UV FS	095-3115R-4000	143
-5000	Plano-concave	UV FS	095-3115R-5000	143
-6000	Plano-concave	UV FS	095-3115R-6000	143
-8000	Plano-concave	UV FS	095-3115R-8000	143
-10000	Plano-concave	UV FS	095-3115R-10000	143

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+100	Plano-convex	BK7	095-0215R+100	127
+150	Plano-convex	BK7	095-0215R+150	127
+200	Plano-convex	BK7	095-0215R+200	127
+300	Plano-convex	BK7	095-0215R+300	127
+400	Plano-convex	BK7	095-0215R+400	127
+500	Plano-convex	BK7	095-0215R+500	127
+600	Plano-convex	BK7	095-0215R+600	127
+800	Plano-convex	BK7	095-0215R+800	127
+1000	Plano-convex	BK7	095-0215R+1000	127
+1500	Plano-convex	BK7	095-0215R+1500	127
+2000	Plano-convex	BK7	095-0215R+2000	127
+100	Plano-convex	UV FS	095-3215R+100	153
+150	Plano-convex	UV FS	095-3215R+150	153
+200	Plano-convex	UV FS	095-3215R+200	153
+300	Plano-convex	UV FS	095-3215R+300	153
+400	Plano-convex	UV FS	095-3215R+400	153
+500	Plano-convex	UV FS	095-3215R+500	153
+600	Plano-convex	UV FS	095-3215R+600	153
+800	Plano-convex	UV FS	095-3215R+800	153
+1000	Plano-convex	UV FS	095-3215R+1000	153
+1500	Plano-convex	UV FS	095-3215R+1500	153
+2000	Plano-convex	UV FS	095-3215R+2000	153

Related Products

Curved Windows. See page 1.6

Kinematic Mirror Mount 840-0010

Find more at [EksmaOptics.com](#)



Adapter for Mirror at 45° 840-0115

Find more at [EksmaOptics.com](#)



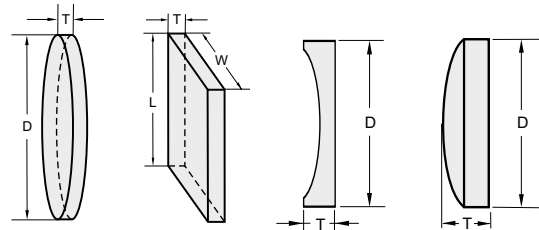
PROTECTED SILVER MIRRORS

Features

- LIDT – 0.25 J/cm² at 800 nm, 50 Hz, 94 fsec pulses*
- LIDT – 1.8 J/cm² at 1064 nm, 50 Hz, 11 nsec pulses*
- Average Reflection >97% for 400 nm – IR
- BK7, UVFS, Zerodur® substrates available
- Round, Square and Flat or Spherical Mirrors available
- OEM capabilities – please contact for special pricing
- Test samples are available on request

* Laser Induced Damage Threshold results are measured according to ISO 21254-2: 1000-on-1 test procedure.

Protected Silver (Ag) Mirrors feature higher reflectance than aluminium throughout the visible and near-infrared spectral region. Our protected silver mirrors has excellent durability.



Drawings of flat round, flat rectangular and spherical mirrors

Flat Rectangular Mirrors. Substrate type: plano-plano

Width W, mm	Length L, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
15.0	20.0	6.0	BK7	091-0325	36
20.0	30.0	6.0	BK7	092-0325	48
25.4	25.4	6.0	BK7	093-0325	46
25.4	50.8	10.0	BK7	094-0325	70
50.8	50.8	10.0	BK7	095-0325	100
15.0	20.0	6.0	UV FS	091-3325	50
20.0	30.0	6.0	UV FS	092-3325	66
25.4	25.4	6.0	UV FS	093-3325	64
25.4	50.8	10.0	UV FS	094-3325	105
50.8	50.8	10.0	UV FS	095-3325	145

Flat Round Mirrors. Substrate type: plano-plano

Diameter D, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
12.7	3.0	BK7	091-0025	26
12.7	6.0	BK7	091-0025T6	26
25.4	6.0	BK7	092-0025	39
50.8	8.0	BK7	095-0025	90
76.2	12.7	BK7	097-0025	180
101.6	15.0	BK7	098-0025	330
12.7	3.0	UV FS	091-3025	36
12.7	6.0	UV FS	091-3025T6	36
25.4	6.0	UV FS	092-3025	44
50.8	8.0	UV FS	095-3025	96
76.2	12.7	UV FS	097-3025	215
101.6	15.0	UV FS	098-3025	410

Spherical Mirrors. Diameter, D = 12.7 mm. Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	091-0125R-50	42
-75	Plano-concave	BK7	091-0125R-75	42
-100	Plano-concave	BK7	091-0125R-100	42
-150	Plano-concave	BK7	091-0125R-150	42
-200	Plano-concave	BK7	091-0125R-200	42
-250	Plano-concave	BK7	091-0125R-250	42
-300	Plano-concave	BK7	091-0125R-300	42
-400	Plano-concave	BK7	091-0125R-400	42
-500	Plano-concave	BK7	091-0125R-500	42
-1000	Plano-concave	BK7	091-0125R-1000	42
-1500	Plano-concave	BK7	091-0125R-1500	42
-2000	Plano-concave	BK7	091-0125R-2000	42
-50	Plano-concave	UV FS	091-3125R-50	52
-75	Plano-concave	UV FS	091-3125R-75	52
-100	Plano-concave	UV FS	091-3125R-100	52
-150	Plano-concave	UV FS	091-3125R-150	52
-200	Plano-concave	UV FS	091-3125R-200	52
-250	Plano-concave	UV FS	091-3125R-250	52
-300	Plano-concave	UV FS	091-3125R-300	52
-400	Plano-concave	UV FS	091-3125R-400	52
-500	Plano-concave	UV FS	091-3125R-500	52
-1000	Plano-concave	UV FS	091-3125R-1000	52
-1500	Plano-concave	UV FS	091-3125R-1500	52
-2000	Plano-concave	UV FS	091-3125R-2000	52

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+50	Plano-convex	BK7	091-0225R+50	44
+100	Plano-convex	BK7	091-0225R+100	44
+150	Plano-convex	BK7	091-0225R+150	44
+200	Plano-convex	BK7	091-0225R+200	44
+300	Plano-convex	BK7	091-0225R+300	44
+400	Plano-convex	BK7	091-0225R+400	44
+500	Plano-convex	BK7	091-0225R+500	44
+50	Plano-convex	UV FS	091-3225R+50	55
+100	Plano-convex	UV FS	091-3225R+100	55
+150	Plano-convex	UV FS	091-3225R+150	55
+200	Plano-convex	UV FS	091-3225R+200	55
+300	Plano-convex	UV FS	091-3225R+300	55
+400	Plano-convex	UV FS	091-3225R+400	55
+500	Plano-convex	UV FS	091-3225R+500	55

Spherical Mirrors. Diameter, D = 25.4 mm. Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	092-0125R-50	65
-75	Plano-concave	BK7	092-0125R-75	65
-100	Plano-concave	BK7	092-0125R-100	65
-150	Plano-concave	BK7	092-0125R-150	65
-200	Plano-concave	BK7	092-0125R-200	65
-250	Plano-concave	BK7	092-0125R-250	65
-300	Plano-concave	BK7	092-0125R-300	65
-400	Plano-concave	BK7	092-0125R-400	65
-500	Plano-concave	BK7	092-0125R-500	65
-600	Plano-concave	BK7	092-0125R-600	65
-750	Plano-concave	BK7	092-0125R-750	65
-800	Plano-concave	BK7	092-0125R-800	65
-1000	Plano-concave	BK7	092-0125R-1000	65
-1500	Plano-concave	BK7	092-0125R-1500	65
-2000	Plano-concave	BK7	092-0125R-2000	65
-2500	Plano-concave	BK7	092-0125R-2500	65
-3000	Plano-concave	BK7	092-0125R-3000	65
-4000	Plano-concave	BK7	092-0125R-4000	65
-5000	Plano-concave	BK7	092-0125R-5000	65
-6000	Plano-concave	BK7	092-0125R-6000	65
-8000	Plano-concave	BK7	092-0125R-8000	65
-50	Plano-concave	UV FS	092-3125R-50	80
-75	Plano-concave	UV FS	092-3125R-75	80
-100	Plano-concave	UV FS	092-3125R-100	80
-150	Plano-concave	UV FS	092-3125R-150	80
-200	Plano-concave	UV FS	092-3125R-200	80
-250	Plano-concave	UV FS	092-3125R-250	80
-300	Plano-concave	UV FS	092-0125R-300	80
-400	Plano-concave	UV FS	092-0125R-400	80
-500	Plano-concave	UV FS	092-3125R-500	80
-600	Plano-concave	UV FS	092-3125R-600	80
-750	Plano-concave	UV FS	092-3125R-750	80
-800	Plano-concave	UV FS	092-3125R-800	80
-1000	Plano-concave	UV FS	092-3125R-1000	80
-1500	Plano-concave	UV FS	092-3125R-1500	80

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-2000	Plano-concave	UV FS	092-3125R-2000	80
-2500	Plano-concave	UV FS	092-3125R-2500	80
-3000	Plano-concave	UV FS	092-0125R-3000	80
-4000	Plano-concave	UV FS	092-3125R-4000	80
-5000	Plano-concave	UV FS	092-3125R-5000	80
-6000	Plano-concave	UV FS	092-0125R-6000	80
-8000	Plano-concave	UV FS	092-0125R-8000	80
+50	Plano-convex	BK7	092-0225R+50	69
+100	Plano-convex	BK7	092-0225R+100	69
+150	Plano-convex	BK7	092-0225R+150	69
+200	Plano-convex	BK7	092-0225R+200	69
+300	Plano-convex	BK7	092-0225R+300	69
+400	Plano-convex	BK7	092-0225R+400	69
+500	Plano-convex	BK7	092-0225R+500	69
+600	Plano-convex	BK7	092-0225R+600	69
+800	Plano-convex	BK7	092-0225R+800	69
+1000	Plano-convex	BK7	092-0225R+1000	69
+1500	Plano-convex	BK7	092-0225R+1500	69
+2000	Plano-convex	BK7	092-0225R+2000	69
+4000	Plano-convex	BK7	092-0225R+4000	69
+5000	Plano-convex	BK7	092-0225R+5000	69
+50	Plano-convex	UV FS	092-3225R+50	85
+100	Plano-convex	UV FS	092-3225R+100	85
+150	Plano-convex	UV FS	092-3225R+150	85
+200	Plano-convex	UV FS	092-3225R+200	85
+300	Plano-convex	UV FS	092-3225R+300	85
+400	Plano-convex	UV FS	092-3225R+400	85
+500	Plano-convex	UV FS	092-3225R+500	85
+600	Plano-convex	UV FS	092-3225R+600	85
+800	Plano-convex	UV FS	092-3225R+800	85
+1000	Plano-convex	UV FS	092-3225R+1000	85
+1500	Plano-convex	UV FS	092-3225R+1500	85
+2000	Plano-convex	UV FS	092-3225R+2000	85
+4000	Plano-convex	UV FS	092-3225R+4000	85
+5000	Plano-convex	UV FS	092-3225R+5000	85

Spherical Mirrors. Diameter, D = 50.8 mm. Thickness (edge for plano-concave, center for plano-convex), T = 10.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-100	Plano-concave	BK7	095-0125R-100	164
-150	Plano-concave	BK7	095-0125R-150	164
-200	Plano-concave	BK7	095-0125R-200	164
-250	Plano-concave	BK7	095-0125R-250	164
-300	Plano-concave	BK7	095-0125R-300	164
-400	Plano-concave	BK7	095-0125R-400	164
-500	Plano-concave	BK7	095-0125R-500	164
-600	Plano-concave	BK7	095-0125R-600	164
-800	Plano-concave	BK7	095-0125R-800	164
-1000	Plano-concave	BK7	095-0125R-1000	164
-1500	Plano-concave	BK7	095-0125R-1500	164
-2000	Plano-concave	BK7	095-0125R-2000	164
-2500	Plano-concave	BK7	095-0125R-2500	164
-3000	Plano-concave	BK7	095-0125R-3000	164
-4000	Plano-concave	BK7	095-0125R-4000	164
-5000	Plano-concave	BK7	095-0125R-5000	164
-6000	Plano-concave	BK7	095-0125R-6000	164
-8000	Plano-concave	BK7	095-0125R-8000	164
-10000	Plano-concave	BK7	095-0125R-10000	164

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-100	Plano-concave	UV FS	095-3125R-100	189
-150	Plano-concave	UV FS	095-3125R-150	189
-200	Plano-concave	UV FS	095-3125R-200	189
-250	Plano-concave	UV FS	095-0125R-250	189
-300	Plano-concave	UV FS	095-3125R-300	189
-400	Plano-concave	UV FS	095-3125R-400	189
-500	Plano-concave	UV FS	095-3125R-500	189
-600	Plano-concave	UV FS	095-3125R-600	189
-800	Plano-concave	UV FS	095-3125R-800	189
-1000	Plano-concave	UV FS	095-3125R-1000	189
-1500	Plano-concave	UV FS	095-3125R-1500	189
-2000	Plano-concave	UV FS	095-3125R-2000	189
-2500	Plano-concave	UV FS	095-3125R-2500	189
-3000	Plano-concave	UV FS	095-3125R-3000	189
-4000	Plano-concave	UV FS	095-3125R-4000	189
-5000	Plano-concave	UV FS	095-3125R-5000	189
-6000	Plano-concave	UV FS	095-0125R-6000	189
-8000	Plano-concave	UV FS	095-0125R-8000	189
-10000	Plano-concave	UV FS	095-3125R-10000	189

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+100	Plano-convex	BK7	095-0225R+100	174
+150	Plano-convex	BK7	095-0225R+150	174
+200	Plano-convex	BK7	095-0225R+200	174
+300	Plano-convex	BK7	095-0225R+300	174
+400	Plano-convex	BK7	095-0225R+400	174
+500	Plano-convex	BK7	095-0225R+500	174
+600	Plano-convex	BK7	095-0225R+600	174
+800	Plano-convex	BK7	095-0225R+800	174
+1000	Plano-convex	BK7	095-0225R+1000	174
+1500	Plano-convex	BK7	095-0225R+1500	174
+2000	Plano-convex	BK7	095-0225R+2000	174

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+100	Plano-convex	UV FS	095-3225R+100	199
+150	Plano-convex	UV FS	095-3225R+150	199
+200	Plano-convex	UV FS	095-3225R+200	199
+300	Plano-convex	UV FS	095-3225R+300	199
+400	Plano-convex	UV FS	095-3225R+400	199
+500	Plano-convex	UV FS	095-3225R+500	199
+600	Plano-convex	UV FS	095-3225R+600	199
+800	Plano-convex	UV FS	095-3225R+800	199
+1000	Plano-convex	UV FS	095-3225R+1000	199
+1500	Plano-convex	UV FS	095-3225R+1500	199
+2000	Plano-convex	UV FS	095-3225R+2000	199

Spherical Mirrors. Diameter, D = 76.2 mm. Thickness (edge for plano-concave, center for plano-convex), T = 12.7 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-200	Plano-concave	BK7	097-0125R-200	250
-300	Plano-concave	BK7	097-0125R-300	250
-400	Plano-concave	BK7	097-0125R-400	250
-500	Plano-concave	BK7	097-0125R-500	250
-600	Plano-concave	BK7	097-0125R-600	250
-800	Plano-concave	BK7	097-0125R-800	250
-1000	Plano-concave	BK7	097-0125R-1000	250
-2000	Plano-concave	BK7	097-0125R-2000	250
-3000	Plano-concave	BK7	097-0125R-3000	250
-200	Plano-concave	UV FS	097-3125R-200	340
-300	Plano-concave	UV FS	097-3125R-300	340
-400	Plano-concave	UV FS	097-3125R-400	340
-500	Plano-concave	UV FS	097-3125R-500	340
-600	Plano-concave	UV FS	097-3125R-600	340
-800	Plano-concave	UV FS	097-3125R-800	340
-1000	Plano-concave	UV FS	097-3125R-1000	340
-2000	Plano-concave	UV FS	097-3125R-2000	340
-3000	Plano-concave	UV FS	097-3125R-3000	340

Spherical Mirrors. Diameter, D = 101.6 mm. Thickness (edge for plano-concave, center for plano-convex), T = 15.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-300	Plano-concave	BK7	098-0125R-300	590
-400	Plano-concave	BK7	098-0125R-400	590
-500	Plano-concave	BK7	098-0125R-500	590
-600	Plano-concave	BK7	098-0125R-600	590
-800	Plano-concave	BK7	098-0125R-800	590
-1000	Plano-concave	BK7	098-0125R-1000	590
-2000	Plano-concave	BK7	098-0125R-2000	590
-3000	Plano-concave	BK7	098-0125R-3000	590
-300	Plano-concave	UV FS	098-3125R-300	690
-400	Plano-concave	UV FS	098-3125R-400	690
-500	Plano-concave	UV FS	098-3125R-500	690
-600	Plano-concave	UV FS	098-3125R-600	690
-800	Plano-concave	UV FS	098-3125R-800	690
-1000	Plano-concave	UV FS	098-3125R-1000	690
-2000	Plano-concave	UV FS	098-3125R-2000	690
-3000	Plano-concave	UV FS	098-3125R-3000	690

Related Products

Curved Windows. See page 1.6

Kinematic Mirror Mount 840-0010
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Adapter for Mirror at 45° 840-0115
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Non Standard Metal Coated Mirrors are available for fast off-the-shelf delivery. Check the availability at www.eksmaoptics.com



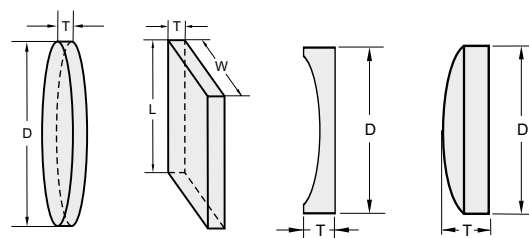
PROTECTED GOLD MIRRORS

Features

- LIDT – 1.0 J/cm² at 1064 nm, 50 Hz, 11 nsec pulses*
- Average Reflection >98% for 900 nm – IR
- BK7, UVFS, Zerodur® substrates available
- Round, Square and Flat or Spherical Mirrors available
- OEM capabilities - please contact for special pricing
- Test samples are available on request
- Bare Gold coated mirrors are available as an option

* Laser Induced Damage Threshold results are measured according to ISO 21254-2: 1000-on-1 test procedure.

Protected Gold (Au) Mirrors have the highest reflectance in infrared. Enhanced metallic coatings provide greater reflection across the operating bandwidth.



Drawings of flat round, flat rectangular and spherical mirrors

Flat Rectangular Mirrors. Substrate type: plano-plano

Width W, mm	Length L, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
15.0	20.0	6.0	BK7	091-0330	55
20.0	30.0	6.0	BK7	092-0330	69
25.4	25.4	6.0	BK7	093-0330	52
25.4	50.8	10.0	BK7	094-0330	95
50.8	50.8	10.0	BK7	095-0330	105
15.0	20.0	6.0	UV FS	091-3330	69
20.0	30.0	6.0	UV FS	092-3330	87
25.4	25.4	6.0	UV FS	093-3330	83
25.4	50.8	10.0	UV FS	094-3330	130
50.8	50.8	10.0	UV FS	095-3330	175

Flat Round Mirrors. Substrate type: plano-plano

Diameter D, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
12.7	3.0	BK7	091-0030	35
12.7	6.0	BK7	091-0030T6	35
25.4	6.0	BK7	092-0030	43
50.8	8.0	BK7	095-0030	115
76.2	12.7	BK7	097-0030	210
101.6	15.0	BK7	098-0030	430
12.7	3.0	UV FS	091-3030	45
12.7	6.0	UV FS	091-3030T6	45
25.4	6.0	UV FS	092-3030	48
50.8	8.0	UV FS	095-3030	155
76.2	12.7	UV FS	097-3030	245
101.6	15.0	UV FS	098-3030	510

Spherical Mirrors. Diameter, D = 12.7 mm. Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	091-0130R-50	52
-75	Plano-concave	BK7	091-0130R-75	52
-100	Plano-concave	BK7	091-0130R-100	52
-150	Plano-concave	BK7	091-0130R-150	52
-200	Plano-concave	BK7	091-0130R-200	52
-250	Plano-concave	BK7	091-0130R-250	52
-300	Plano-concave	BK7	091-0130R-300	52
-400	Plano-concave	BK7	091-0130R-400	52
-500	Plano-concave	BK7	091-0130R-500	52
-1000	Plano-concave	BK7	091-0130R-1000	52
-1500	Plano-concave	BK7	091-0130R-1500	52
-2000	Plano-concave	BK7	091-0130R-2000	52
-50	Plano-concave	UV FS	091-3130R-50	52
-75	Plano-concave	UV FS	091-3130R-75	62
-100	Plano-concave	UV FS	091-3130R-100	62
-150	Plano-concave	UV FS	091-3130R-150	62
-200	Plano-concave	UV FS	091-3130R-200	62
-250	Plano-concave	UV FS	091-3130R-250	62
-300	Plano-concave	UV FS	091-3130R-300	62
-400	Plano-concave	UV FS	091-3130R-400	62
-500	Plano-concave	UV FS	091-3130R-500	62
-1000	Plano-concave	UV FS	091-3130R-1000	62
-1500	Plano-concave	UV FS	091-3130R-1500	62
-2000	Plano-concave	UV FS	091-3130R-2000	62

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+50	Plano-convex	BK7	091-0230R+50	54
+100	Plano-convex	BK7	091-0230R+100	54
+150	Plano-convex	BK7	091-0230R+150	54
+200	Plano-convex	BK7	091-0230R+200	54
+300	Plano-convex	BK7	091-0230R+300	54
+400	Plano-convex	BK7	091-0230R+400	54
+500	Plano-convex	BK7	091-0230R+500	54
+50	Plano-convex	UV FS	091-3230R+50	65
+100	Plano-convex	UV FS	091-3230R+100	65
+150	Plano-convex	UV FS	091-3230R+150	65
+200	Plano-convex	UV FS	091-3230R+200	65
+300	Plano-convex	UV FS	091-3230R+300	65
+400	Plano-convex	UV FS	091-3230R+400	65
+500	Plano-convex	UV FS	091-2230R+500	65

Spherical Mirrors. Diameter, D = 25.4 mm. Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	092-0130R-50	95
-75	Plano-concave	BK7	092-0130R-75	95
-100	Plano-concave	BK7	092-0130R-100	95
-150	Plano-concave	BK7	092-0130R-150	95
-200	Plano-concave	BK7	092-0130R-200	95
-250	Plano-concave	BK7	092-0130R-250	95
-300	Plano-concave	BK7	092-0130R-300	95
-400	Plano-concave	BK7	092-0130R-400	95
-500	Plano-concave	BK7	092-0130R-500	95
-600	Plano-concave	BK7	092-0130R-600	95
-750	Plano-concave	BK7	092-0130R-750	95
-800	Plano-concave	BK7	092-0130R-800	95
-1000	Plano-concave	BK7	092-0130R-1000	95
-1500	Plano-concave	BK7	092-0130R-1500	95
-2000	Plano-concave	BK7	092-0130R-2000	95
-2500	Plano-concave	BK7	092-0130R-2500	95
-3000	Plano-concave	BK7	092-0130R-3000	95
-4000	Plano-concave	BK7	092-0130R-4000	95
-5000	Plano-concave	BK7	092-0130R-5000	95
-6000	Plano-concave	BK7	092-0130R-6000	95
-8000	Plano-concave	BK7	092-0130R-8000	95
-50	Plano-concave	UV FS	092-3130R-50	110
-75	Plano-concave	UV FS	092-3130R-75	110
-100	Plano-concave	UV FS	092-3130R-100	110
-150	Plano-concave	UV FS	092-3130R-150	110
-200	Plano-concave	UV FS	092-3130R-200	110
-250	Plano-concave	UV FS	092-3130R-250	110
-300	Plano-concave	UV FS	092-3130R-300	110
-400	Plano-concave	UV FS	092-3130R-400	110
-500	Plano-concave	UV FS	092-3130R-500	110
-600	Plano-concave	UV FS	092-3130R-600	110
-750	Plano-concave	UV FS	092-3130R-750	110
-800	Plano-concave	UV FS	092-3130R-800	110
-1000	Plano-concave	UV FS	092-3130R-1000	110
-1500	Plano-concave	UV FS	092-3130R-1500	110

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-2000	Plano-concave	UV FS	092-3130R-2000	110
-2500	Plano-concave	UV FS	092-3130R-2500	110
-3000	Plano-concave	UV FS	092-3130R-3000	110
-4000	Plano-concave	UV FS	092-3130R-4000	110
-5000	Plano-concave	UV FS	092-3130R-5000	110
-6000	Plano-concave	UV FS	092-3130R-6000	110
-8000	Plano-concave	UV FS	092-3130R-8000	110
+50	Plano-convex	BK7	092-0230R+50	99
+100	Plano-convex	BK7	092-0230R+100	99
+150	Plano-convex	BK7	092-0230R+150	99
+200	Plano-convex	BK7	092-0230R+200	99
+300	Plano-convex	BK7	092-0230R+300	99
+400	Plano-convex	BK7	092-0230R+400	99
+500	Plano-convex	BK7	092-0230R+500	99
+600	Plano-convex	BK7	092-0230R+600	99
+800	Plano-convex	BK7	092-0230R+800	99
+1000	Plano-convex	BK7	092-0230R+1000	99
+1500	Plano-convex	BK7	092-0230R+1500	99
+2000	Plano-convex	BK7	092-0230R+2000	99
+4000	Plano-convex	BK7	092-0230R+4000	99
+5000	Plano-convex	BK7	092-0230R+5000	99
+50	Plano-convex	UV FS	092-3230R+50	115
+100	Plano-convex	UV FS	092-3230R+100	115
+150	Plano-convex	UV FS	092-3230R+150	115
+200	Plano-convex	UV FS	092-3230R+200	115
+300	Plano-convex	UV FS	092-3230R+300	115
+400	Plano-convex	UV FS	092-3230R+400	115
+500	Plano-convex	UV FS	092-3230R+500	115
+600	Plano-convex	UV FS	092-3230R+600	115
+800	Plano-convex	UV FS	092-3230R+800	115
+1000	Plano-convex	UV FS	092-3230R+1000	115
+1500	Plano-convex	UV FS	092-3230R+1500	115
+2000	Plano-convex	UV FS	092-3230R+2000	115
+4000	Plano-convex	UV FS	092-3230R+4000	115
+5000	Plano-convex	UV FS	092-3230R+5000	115

Related Products

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Adapter for Mirror at 45° 840-0115

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Spherical Mirrors. Diameter, D = 50.8 mm. Thickness (edge for plano-concave, center for plano-convex), T = 10.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-100	Plano-concave	BK7	095-0130R-100	174
-150	Plano-concave	BK7	095-0130R-150	174
-200	Plano-concave	BK7	095-0130R-200	174
-250	Plano-concave	BK7	095-0130R-250	174
-300	Plano-concave	BK7	095-0130R-300	174
-400	Plano-concave	BK7	095-0130R-400	174
-500	Plano-concave	BK7	095-0130R-500	174
-600	Plano-concave	BK7	095-0130R-600	174
-800	Plano-concave	BK7	095-0130R-800	174
-1000	Plano-concave	BK7	095-0130R-1000	174
-1500	Plano-concave	BK7	095-0130R-1500	174
-2000	Plano-concave	BK7	095-0130R-2000	174
-2500	Plano-concave	BK7	095-0130R-2500	174
-3000	Plano-concave	BK7	095-0130R-3000	174
-4000	Plano-concave	BK7	095-0130R-4000	174
-5000	Plano-concave	BK7	095-0130R-5000	174
-6000	Plano-concave	BK7	095-0130R-6000	174
-8000	Plano-concave	BK7	095-0130R-8000	174
-10000	Plano-concave	BK7	095-0130R-10000	174
-100	Plano-concave	UV FS	095-3130R-100	199
-150	Plano-concave	UV FS	095-3130R-150	199
-200	Plano-concave	UV FS	095-3130R-200	199
-250	Plano-concave	UV FS	095-3130R-250	199
-300	Plano-concave	UV FS	095-3130R-300	199
-400	Plano-concave	UV FS	095-3130R-400	199
-500	Plano-concave	UV FS	095-3130R-500	199
-600	Plano-concave	UV FS	095-3130R-600	199
-800	Plano-concave	UV FS	095-3130R-800	199
-1000	Plano-concave	UV FS	095-3130R-1000	199
-1500	Plano-concave	UV FS	095-3130R-1500	199
-2000	Plano-concave	UV FS	095-3130R-2000	199
-2500	Plano-concave	UV FS	095-3130R-2500	199
-3000	Plano-concave	UV FS	095-3130R-3000	199
-4000	Plano-concave	UV FS	095-3130R-4000	199
-5000	Plano-concave	UV FS	095-3130R-5000	199
-6000	Plano-concave	UV FS	095-3130R-6000	199
-8000	Plano-concave	UV FS	095-3130R-8000	199
-10000	Plano-concave	UV FS	095-3130R-10000	199

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+100	Plano-convex	BK7	095-0230R+100	173
+150	Plano-convex	BK7	095-0230R+150	173
+200	Plano-convex	BK7	095-0230R+200	173
+300	Plano-convex	BK7	095-0230R+300	173
+400	Plano-convex	BK7	095-0230R+400	173
+500	Plano-convex	BK7	095-0230R+500	173
+600	Plano-convex	BK7	095-0230R+600	173
+800	Plano-convex	BK7	095-0230R+800	173
+1000	Plano-convex	BK7	095-0230R+1000	173
+1500	Plano-convex	BK7	095-0230R+1500	173
+2000	Plano-convex	BK7	095-0230R+2000	173
+100	Plano-convex	UV FS	095-3230R+100	209
+150	Plano-convex	UV FS	095-3230R+150	209
+200	Plano-convex	UV FS	095-3230R+200	209
+300	Plano-convex	UV FS	095-3230R+300	209
+400	Plano-convex	UV FS	095-3230R+400	209
+500	Plano-convex	UV FS	095-3230R+500	209
+600	Plano-convex	UV FS	095-3230R+600	209
+800	Plano-convex	UV FS	095-3230R+800	209
+1000	Plano-convex	UV FS	095-3230R+1000	209
+1500	Plano-convex	UV FS	095-3230R+1500	209
+2000	Plano-convex	UV FS	095-3230R+2000	209

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