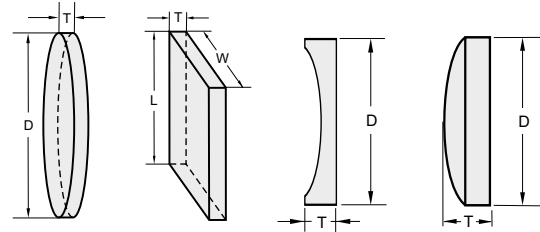


ENHANCED SILVER MIRRORS

Features

- LIDT – 0.25 J/cm² at 800 nm, 50 Hz, 94 fsec pulses
- Round, square, flat or spherical mirrors available
- Reflectivity R>98.5% @ 600 – 1100 nm, R>99% @ 700 – 900 nm
- Operating angle of incidence from 0° to 45°
- Group Delay Dispersion < | 5 fs² |

Enhanced silver mirrors are designed for applications with femtosecond lasers. These mirrors feature high reflectivity R>98.5% in the wavelength range from 600 nm to 1100 nm and R>99% @ 700 – 900 nm. Mirrors are relatively insensitive to angle of incidence and can be used in applications with AOI ranging from 0° to 45°.



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	BK7	091-0325F	55
20.0	30.0	6	BK7	092-0325F	82
25.4	25.4	6	BK7	093-0325F	80
25.4	50.8	10	BK7	094-0325F	115
50.8	50.8	10	BK7	095-0325F	155
15.0	20.0	6	UVFS	091-3325F	70
20.0	30.0	6	UVFS	092-3325F	92
25.4	25.4	6	UVFS	093-3325F	90
25.4	50.8	10	UVFS	094-3325F	135
50.8	50.8	10	UVFS	095-3325F	175

Flat Round Mirrors. Substrate type: plano-plano

Diameter D, mm	Thickness T, mm	Substrate material	Catalogue number	Price, EUR
Ø12.7	3	BK7	091-0025F	45
Ø12.7	6	BK7	091-0025FT6	45
Ø25.4	6	BK7	092-0025F	75
Ø50.8	8	BK7	095-0025F	145
Ø76.2	12.7	BK7	097-0025F	300
Ø101.6	15	BK7	098-0025F	450
Ø12.7	3	UVFS	091-3025F	56
Ø12.7	6	UVFS	091-3025FT6	56
Ø25.4	6	UVFS	092-3025F	85
Ø50.8	8	UVFS	095-3025F	162
Ø76.2	12.7	UVFS	097-3025F	355
Ø101.6	15	UVFS	098-3025F	530

Spherical Mirrors. Diameter, D = 12.7 mm.

Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

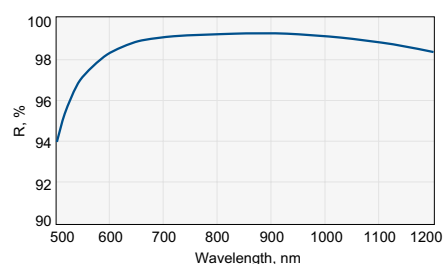
Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	091-0125FR-50	60
-75	Plano-concave	BK7	091-0125FR-75	60
-100	Plano-concave	BK7	091-0125FR-100	60
-150	Plano-concave	BK7	091-0125FR-150	60
-200	Plano-concave	BK7	091-0125FR-200	60
-250	Plano-concave	BK7	091-0125FR-250	60
-300	Plano-concave	BK7	091-0125FR-300	60
-400	Plano-concave	BK7	091-0125FR-400	60
-500	Plano-concave	BK7	091-0125FR-500	60
-1000	Plano-concave	BK7	091-0125FR-1000	60
-1500	Plano-concave	BK7	091-0125FR-1500	60
-2000	Plano-concave	BK7	091-0125FR-2000	60
-50	Plano-concave	UVFS	091-3125FR-50	86
-75	Plano-concave	UVFS	091-3125FR-75	86
-100	Plano-concave	UVFS	091-3125FR-100	86
-150	Plano-concave	UVFS	091-3125FR-150	86
-200	Plano-concave	UVFS	091-3125FR-200	86
-250	Plano-concave	UVFS	091-3125FR-250	86
-300	Plano-concave	UVFS	091-3125FR-300	86
-400	Plano-concave	UVFS	091-3125FR-400	86
-500	Plano-concave	UVFS	091-3125FR-500	86
-1000	Plano-concave	UVFS	091-3125FR-1000	86
-1500	Plano-concave	UVFS	091-3125FR-1500	86
-2000	Plano-concave	UVFS	091-3125FR-2000	86

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+50	Plano-convex	BK7	091-0225FR+50	62
+100	Plano-convex	BK7	091-0225FR+100	62
+150	Plano-convex	BK7	091-0225FR+150	62
+200	Plano-convex	BK7	091-0225FR+200	62
+300	Plano-convex	BK7	091-0225FR+300	62
+400	Plano-convex	BK7	091-0225FR+400	62
+500	Plano-convex	BK7	091-0225FR+500	62
+50	Plano-convex	UVFS	091-3225FR+50	89
+100	Plano-convex	UVFS	091-3225FR+100	89
+150	Plano-convex	UVFS	091-3225FR+150	89
+200	Plano-convex	UVFS	091-3225FR+200	89
+300	Plano-convex	UVFS	091-3225FR+300	89
+400	Plano-convex	UVFS	091-3225FR+400	89
+500	Plano-convex	UVFS	091-3225FR+500	89

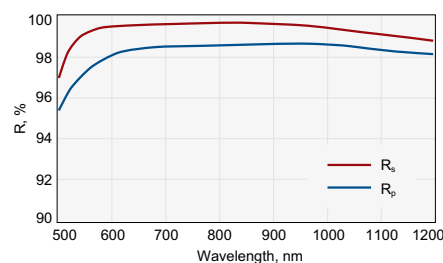
Spherical Mirrors. Diameter, D = 25.4 mm.
 Thickness (edge for plano-concave, center for plano-convex), T = 6.0 mm

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-50	Plano-concave	BK7	092-0125FR-50	105
-75	Plano-concave	BK7	092-0125FR-75	105
-100	Plano-concave	BK7	092-0125FR-100	105
-150	Plano-concave	BK7	092-0125FR-150	105
-200	Plano-concave	BK7	092-0125FR-200	105
-250	Plano-concave	BK7	092-0125FR-250	105
-300	Plano-concave	BK7	092-0125FR-300	105
-400	Plano-concave	BK7	092-0125FR-400	105
-500	Plano-concave	BK7	092-0125FR-500	105
-600	Plano-concave	BK7	092-0125FR-600	105
-700	Plano-concave	BK7	092-0125FR-700	105
-750	Plano-concave	BK7	092-0125FR-750	105
-800	Plano-concave	BK7	092-0125FR-800	105
-1000	Plano-concave	BK7	092-0125FR-1000	105
-1500	Plano-concave	BK7	092-0125FR-1500	105
-2000	Plano-concave	BK7	092-0125FR-2000	105
-2500	Plano-concave	BK7	092-0125FR-2500	105
-3000	Plano-concave	BK7	092-0125FR-3000	105
-4000	Plano-concave	BK7	092-0125FR-4000	105
-5000	Plano-concave	BK7	092-0125FR-5000	105
-6000	Plano-concave	BK7	092-0125FR-6000	105
-8000	Plano-concave	BK7	092-0125FR-8000	105
-50	Plano-concave	UVFS	092-0125FR-50	135
-75	Plano-concave	UVFS	092-0125FR-75	135
-100	Plano-concave	UVFS	092-0125FR-100	135
-150	Plano-concave	UVFS	092-0125FR-150	135
-200	Plano-concave	UVFS	092-0125FR-200	135
-250	Plano-concave	UVFS	092-0125FR-250	135
-300	Plano-concave	UVFS	092-0125FR-300	135
-400	Plano-concave	UVFS	092-0125FR-400	135
-500	Plano-concave	UVFS	092-0125FR-500	135
-600	Plano-concave	UVFS	092-3125FR-600	135
-700	Plano-concave	UVFS	092-3125FR-700	135
-750	Plano-concave	UVFS	092-3125FR-750	135
-800	Plano-concave	UVFS	092-3125FR-800	135
-1000	Plano-concave	UVFS	092-3125FR-1000	135
-1500	Plano-concave	UVFS	092-3125FR-1500	135
-2000	Plano-concave	UVFS	092-3125FR-2000	135
-2500	Plano-concave	UVFS	092-3125FR-2500	135
-3000	Plano-concave	UVFS	092-3125FR-3000	135
-4000	Plano-concave	UVFS	092-3125FR-4000	135
-5000	Plano-concave	UVFS	092-3125FR-5000	135
-6000	Plano-concave	UVFS	092-3125FR-6000	135
-8000	Plano-concave	UVFS	092-3125FR-8000	135

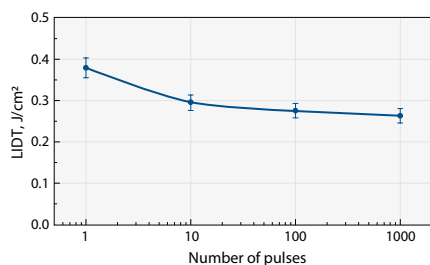
Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
+50	Plano-convex	BK7	092-0225FR+50	110
+100	Plano-convex	BK7	092-0225FR+100	110
+150	Plano-convex	BK7	092-0225FR+150	110
+200	Plano-convex	BK7	092-0225FR+200	110
+300	Plano-convex	BK7	092-0225FR+300	110
+400	Plano-convex	BK7	092-0225FR+400	110
+500	Plano-convex	BK7	092-0225FR+500	110
+600	Plano-convex	BK7	092-0225FR+600	110
+800	Plano-convex	BK7	092-0225FR+800	110
+1000	Plano-convex	BK7	092-0225FR+1000	110
+1500	Plano-convex	BK7	092-0225FR+1500	110
+2000	Plano-convex	BK7	092-0225FR+2000	110
+4000	Plano-convex	BK7	092-0225FR+4000	110
+5000	Plano-convex	BK7	092-0225FR+5000	110
+50	Plano-convex	UVFS	092-3225FR+50	140
+100	Plano-convex	UVFS	092-3225FR+100	140
+150	Plano-convex	UVFS	092-3225FR+150	140
+200	Plano-convex	UVFS	092-3225FR+200	140
+300	Plano-convex	UVFS	092-3225FR+300	140
+400	Plano-convex	UVFS	092-3225FR+400	140
+500	Plano-convex	UVFS	092-3225FR+500	140
+600	Plano-convex	UVFS	092-3225FR+600	140
+800	Plano-convex	UVFS	092-3225FR+800	140
+1000	Plano-convex	UVFS	092-3225FR+1000	140
+1500	Plano-convex	UVFS	092-3225FR+1500	140
+2000	Plano-convex	UVFS	092-3225FR+2000	140
+4000	Plano-convex	UVFS	092-3225FR+4000	140
+5000	Plano-convex	UVFS	092-3225FR+5000	140



Reflectivity of enhanced silver mirrors, AOI=0°



Reflectivity of enhanced silver mirrors, AOI=45°



LIDT of enhanced silver mirrors, AOI=45° @ 800 nm, 100 fs, 100 Hz

Test conditions:

Wavelength	800 nm
Pulse duration	99.9 fs
Repetition rate	100 Hz
AOI	45°
Polarization	linear P
Beam diameter (1/e²)	(143 ± 2.3) μm

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	095-0125FR-100	210
-150	Plano-concave	BK7	095-0125FR-150	210
-200	Plano-concave	BK7	095-0125FR-200	210
-250	Plano-concave	BK7	095-0125FR-250	210
-300	Plano-concave	BK7	095-0125FR-300	210
-400	Plano-concave	BK7	095-0125FR-400	210
-500	Plano-concave	BK7	095-0125FR-500	210
-600	Plano-concave	BK7	095-0125FR-600	210
-800	Plano-concave	BK7	095-0125FR-800	210
-1000	Plano-concave	BK7	095-0125FR-1000	210
-1500	Plano-concave	BK7	095-0125FR-1500	210
-2000	Plano-concave	BK7	095-0125FR-2000	210
-2500	Plano-concave	BK7	095-0125FR-2500	210
-3000	Plano-concave	BK7	095-0125FR-3000	210
-4000	Plano-concave	BK7	095-0125FR-4000	210
-5000	Plano-concave	BK7	095-0125FR-5000	210
-6000	Plano-concave	BK7	095-0125FR-6000	210
-8000	Plano-concave	BK7	095-0125FR-8000	210
-10000	Plano-concave	BK7	095-0125FR-10000	210
-100	Plano-concave	UVFS	095-3125FR-100	245
-150	Plano-concave	UVFS	095-3125FR-150	245
-200	Plano-concave	UVFS	095-3125FR-200	245
-250	Plano-concave	UVFS	095-3125FR-250	245
-300	Plano-concave	UVFS	095-3125FR-300	245
-400	Plano-concave	UVFS	095-3125FR-400	245
-500	Plano-concave	UVFS	095-3125FR-500	245
-600	Plano-concave	UVFS	095-3125FR-600	245
-800	Plano-concave	UVFS	095-3125FR-800	245
-1000	Plano-concave	UVFS	095-3125FR-1000	245
-1500	Plano-concave	UVFS	095-3125FR-1500	245

Radius, mm	Substrate type	Substrate material	Catalogue number	Price, EUR
-2000	Plano-concave	UVFS	095-3125FR-2000	245
-2500	Plano-concave	UVFS	095-3125FR-2500	245
-3000	Plano-concave	UVFS	095-3125FR-3000	245
-4000	Plano-concave	UVFS	095-3125FR-4000	245
-5000	Plano-concave	UVFS	095-3125FR-5000	245
-6000	Plano-concave	UVFS	095-3125FR-6000	245
-8000	Plano-concave	UVFS	095-3125FR-8000	245
-10000	Plano-concave	UVFS	095-3125FR-10000	245
+100	Plano-convex	BK7	095-0225FR+100	220
+150	Plano-convex	BK7	095-0225FR+150	220
+200	Plano-convex	BK7	095-0225FR+200	220
+300	Plano-convex	BK7	095-0225FR+300	220
+400	Plano-convex	BK7	095-0225FR+400	220
+500	Plano-convex	BK7	095-0225FR+500	220
+600	Plano-convex	BK7	095-0225FR+600	220
+800	Plano-convex	BK7	095-0225FR+800	220
+1000	Plano-convex	BK7	095-0225FR+1000	220
+1500	Plano-convex	BK7	095-0225FR+1500	220
+2000	Plano-convex	BK7	095-0225FR+2000	220
+100	Plano-convex	UVFS	095-3225FR+100	255
+150	Plano-convex	UVFS	095-3225FR+150	255
+200	Plano-convex	UVFS	095-3225FR+200	255
+300	Plano-convex	UVFS	095-3225FR+300	255
+400	Plano-convex	UVFS	095-3225FR+400	255
+500	Plano-convex	UVFS	095-3225FR+500	255
+600	Plano-convex	UVFS	095-3225FR+600	255
+800	Plano-convex	UVFS	095-3225FR+800	255
+1000	Plano-convex	UVFS	095-3225FR+1000	255
+1500	Plano-convex	UVFS	095-3225FR+1500	255
+2000	Plano-convex	UVFS	095-3225FR+2000	255

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	097-0125FR-200	390
-300	Plano-concave	BK7	097-0125FR-300	390
-400	Plano-concave	BK7	097-0125FR-400	390
-500	Plano-concave	BK7	097-0125FR-500	390
-600	Plano-concave	BK7	097-0125FR-600	390
-800	Plano-concave	BK7	097-0125FR-800	390
-1000	Plano-concave	BK7	097-0125FR-1000	390
-2000	Plano-concave	BK7	097-0125FR-2000	390
-3000	Plano-concave	BK7	097-0125FR-3000	390
-200	Plano-concave	UVFS	097-3125FR-200	480
-300	Plano-concave	UVFS	097-3125FR-300	480
-400	Plano-concave	UVFS	097-3125FR-400	480
-500	Plano-concave	UVFS	097-3125FR-500	480
-600	Plano-concave	UVFS	097-3125FR-600	480
-800	Plano-concave	UVFS	097-3125FR-800	480
-1000	Plano-concave	UVFS	097-3125FR-1000	480
-2000	Plano-concave	UVFS	097-3125FR-2000	480
-3000	Plano-concave	UVFS	097-3125FR-3000	480

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	098-0125FR-300	650
-400	Plano-concave	BK7	098-0125FR-400	650
-500	Plano-concave	BK7	098-0125FR-500	650
-600	Plano-concave	BK7	098-0125FR-600	650
-800	Plano-concave	BK7	098-0125FR-800	650
-1000	Plano-concave	BK7	098-0125FR-1000	650
-2000	Plano-concave	BK7	098-0125FR-2000	650
-3000	Plano-concave	BK7	098-0125FR-3000	650
-300	Plano-concave	UVFS	098-3125FR-300	750
-400	Plano-concave	UVFS	098-3125FR-400	750
-500	Plano-concave	UVFS	098-3125FR-500	750
-600	Plano-concave	UVFS	098-3125FR-600	750
-800	Plano-concave	UVFS	098-3125FR-800	750
-1000	Plano-concave	UVFS	098-3125FR-1000	750
-2000	Plano-concave	UVFS	098-3125FR-2000	750
-3000	Plano-concave	UVFS	098-3125FR-3000	750